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Sequence 65, Appl
Sequence 72, Appl
Sequence 72, Appl
Sequence 219, App
Sequence 219, App
Sequence 219, App
Sequence 219, App
Sequence 210, Appl
Sequence 21, Appl
Sequence 24, Appl
Sequence 24, Appl
Sequence 121, App
Sequence 121, App
Sequence 121, Appl
Sequence 130, Appl
Sequence 130, Appl
Sequence 130, Appl
                                                                                                                                 4, 2004, 01:09:51; Search time 23.6667 Seconds (without alignments) 19.615 Million cell updates/sec
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GenCore version 5.1.6
(c) 1993 - 2004 Compugen Ltd.
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US-09-173-941-72
US-09-423-468A-6
US-09-424-190-72
US-08-637-759B-219
US-08-219-355A-219
US-08-219-854-1
US-08-239-854-1
US-08-239-854-1
US-08-239-854-1
US-08-339-854-1
US-08-339-854-1
US-08-348-676-117
US-08-968-676-117
US-08-968-676-121
PCT-US91-07506-24
US-08-68-676-121
US-08-968-676-121
US-08-968-258-180
US-08-968-258-180
US-08-968-258-180
US-09-383-062-35
                                                                                                                                                                                                                                                                                                                                                                                                                                 Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                             478139 seqs, 66318000 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SUMMARIES
                                                                                OM protein - protein search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                                                                                                                                                                                                                              Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                         US-09-712-819D-13
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Match Length
                   Copyright
                                                                                                                                                                                                                                                                          1 LTLKLSR 7
                                                                                                                                   November
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     seq length: 0
seq length: 7
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Maximum DB
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No.
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Sequence 4, Appli Sequence 23, Appl Sequence 4, Appli Sequence 69, Appli

US-08-968-676-4 US-08-968-676-23 US-08-545-745-4 US-08-654-623-69

Sequence 9, Appli Patent No. 5342922

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OTHER INFORMATION: Sequence of a peptide synthesized in Comparative Example 1 from
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 65, Application US/08981122B

Fatent No. 6127339

GENERAL INFORMATION:

APPLICANT: Articomi, Masaharu

TILE OF INVENTION: Peptide for binding thereto a low density lipoprotein

FILE REPRENCE:

CURRENT FILING DATE: 1997-12-18

FRIOR APPLICATION NUMBER: US/08/981,122B

CURRENT FILING DATE: 1995-06-21

FRIOR APPLICATION NUMBER: PT 7-176904

FRIOR APPLICATION NUMBER: PCT/JP96/01734

FRIOR FILING DATE: 1996-06-21

NUMBER OF SEQ ID NOS: 90

SOFTWARE: Patentin Ver. 2.0

SEQ ID NO 65

LENGTH: 5
                                                                             68, Appl
76, Appl
78, Appl
4, Appli
76, Appli
76, Appl
62, Appl
66, Appl
68, Appl
112, Appl
11, Appli
7, Appli
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OTHER INFORMATION: L-form F-moc amino acids by solid phase method using
OTHER INFORMATION: multipeptide synthesizing system (RaMPS)
                                                                                                                                                                                                                                                                                                                                          Sequence 12,
Sequence 17,
Sequence 1, A
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US-09-173-941-72
; Sequence 72. Application US/09173941
; Patent No. 6140081
; GENERAL INFORMATION:
; APPLICANT: BARBAS, Carlos F.
; TILLE OF INVENTION: ZINC FINGER BINDING DOMAINS FOR GNN; FILE REFERENCE: NOVO081S
; CURRENT APPLICATION NUMBER: US/09/173,941
; CURRENT FILING DATE: 1998-10-16
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 72
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 18; DB 3; Length 5;
Pred. No. 3.8e+05;
2; Mismatches 0; Indels
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US-09-173-941-62
US-09-173-941-66
US-09-173-941-67
US-09-173-941-67
US-09-133-902-78
US-09-657-474-78
US-09-657-474-78
US-09-659-786-76
US-09-95-786-76
US-09-94-190-65
US-09-494-190-67
US-09-494-190-67
US-09-494-190-67
US-09-494-190-67
US-09-494-190-67
US-09-494-190-67
US-09-771-415-12
US-08-788-871A-17
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Similarity 60.0%; 3; Conservative
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Best Local Similarity
Matches 3; Conserv
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1 LTMKM 5
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  TYPE: PRT
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Pred. No. 3.8e+05;
0; Mismatches 1; Indels
                                                                                                             0; Indels
                                                   Length 7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COUNTRY: USA

ZIP: 30309-3450

COMPUTER READBLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/637,759B
FILING DATE: 03-MAY-1996
CLASSIFICATION NUMBER: PCT/GB95/02875
FILING DATE: 11-DEC-1995
CLASSIFICATION: 435
FILING DATE: 11-DEC-1995
GTASSIFICATION: 435
FILING DATE: 11-DEC-1995
TILING DATE: 11-DEC-1
                                                      Score 18; DB 4; Ly Pred. No. 3.8e+05;
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US-08-871-355A-219
US-08-871-355A-219
Sequence 219, Application US/08871355A
Sequence 100 6015669
Patent No. 6015669
GENERAL INFORMATION:
TITLE OF INVENTION: Identification of Genes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: David William Holden
APPLICANT: David William Holden
APPLICANT: David William Holden
AUREN OF SEQUENCES: 501
CORRESPONDENCE ADDRESS:
ADDRESSEE: Patrea L. Pabst
STREET: 2800 One Atlantic Center
STREET: 1201 West Peachtree Street
                                   58.1%; Sco. 100.0%; Pred. No. 2.
                                                                                                                                                                                                                                                                                                                                                                       US-08-637-759B-219
; Sequence 219, Application US/08637759B
; Patent No. 5876931
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                                Query Match
Best Local Similarity
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STRANDEDNESS: sir
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Best Local Similarity
Matches 4; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION:
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STATE: Georgia
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US-09-494-190-72
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OTHER INFORMATION: Description of Artificial Sequence:phage display
OTHER INFORMATION: selected and mutagenized
                                                                                                                FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: nucleotide
OTHER INFORMATION: codon binding sequence
US-09-173-941-72
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 6. Application US/09423468A

patent No. 6469149

general No. 6469149

general INPORMATION:

APPLICANT: Vlaams Interuniversitair Instituut voor Biotechnol

APPLICANT: Vlaams Interuniversitair Instituut voor Biotechnol

APPLICANT: Mark William Davey

APPLICANT: Mark William Davey

APPLICANT: Marc Charles Ernest Van Montagu

APPLICANT: Marc Charles Ernest Van Montagu

TITLE OF INVENTION: PRODUCTION OF ASCORBIC ACID IN PLANTS

FILE REFERENCE: DECLES. 001APC

CURRENT FILING DATE: 2000-02-15

PRIOR PILING DATE: 12000-02-15

PRIOR PILING DATE: 1997-05-07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0;
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US-09-494-190-72

Sequence 72, Application US/09494190

Patent No. 6610512

APPLICANT: BARBAS, Carlos F.

TITLE OF INVENTION:
FILE REPRENCE: TSR 1 645.2

CURRENT APPLICATION NUMBER: US/09/494,190

CURRENT PILING DATE: 2000-01-28

PRIOR APPLICATION NUMBER: US/99/07742

PRIOR APPLICATION NUMBER: US 09/173,941

PRIOR APPLICATION NUMBER: US 09/173,941
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 18; DB 4; Length 7; Pred. No. 3.8e+05; 3; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                       0; Indels
                                                                                                                                                                                                                                                          Length 7;
                                                                                                                                                                                                                                                          Query Match

58.1%; Score 18; Ds 3; Ls

Best Local Similarity 100.0%; Pred. No. 3.8e+05;

Matches 4; Conservative 0; Mismatches 0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NUMBER OF SEQ ID NOS: 15
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 6
LENGTH: 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              58.1%;
50.0%;
                                                   TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORGANISM: Brassica oleracea
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Local Similarity 50.0
les 3; Conservative
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2 TIELSK 7
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US-09-423-468A-6
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Best Loc
Matches
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Patent No. 5939639
GENERAL INFORMATION:
APPLICANT: Humphreys, Robert E
APPLICANT: Adams, Sharlene
APPLICANT: Xu, Minzhen
TITLE OF INVENTION: IMMUNOTHERAPY BY MODULATION OF ANTIGEN
NUMBER OF SEQUENCES: 165
CORRESPONDENCE ADDRESS:
ADDRESSEE: Kevin M. Farrell, P.C.
STREET: P.O. Box 999
CITY: York Harbor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    54.8%; Score 17; DB 3; Length 6;
80.0%; Pred. No. 3.8e+05;
tive 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ZIP: 03911
COMPUTER READABLE FORM:
MEDIUM TYEE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
GOFTWARE: Patentin Release #1.0, Version #1.25
APPLICATION NUMBER: US/08/968,676
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Farrell, Kevin M
REGISTRATION NUMBER: 35,505
REFERENCE/DOCKET NUMBER: REH-9601
TELECHOMNICATION INFORMATION:
TELEPHONE: (207) 363-0558
TELEFAX: (207) 363-0528
INFORMATION FOR SEQ ID NO: 70:
                              PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/637,759
FILING DATE:
                                                                                                                                                                                              ATTORNEY/AGENT INFORMATION:

NAME: Pabst, Patrea L.

REGISTRATION UNDRER: 31,284

REFERENCE/DOCKET NUMBER: RPMS
TELECOMMUNICATION INFORMATION:
TELEPHONE: (404) 873-8795

INPORMATION FOR SEQ ID NO: 219:
SEQUENCE CHARACTERISTICS:
LENGTH: 6 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity 80.0
Matches 4; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MOLECULE TYPE: protein
HYPOTHETICAL: NO
US-09-201-945-219
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE CHARACTERISTICS:
LENGTH: 7 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             amino acids
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MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: amino acid
STRANDEDNESS: sir
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    amino acid
                                                                                                                                                            CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        3 LKLSR 7
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-08-968-676-70
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    02-968-676-70
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US-09-201-945-219

US-09-201-945-219

Sequence 219, Application US/09201945

Patent No. 6342215

GENERAL INFORMATION:
APPLICANT: David William Holden
TITLE OF INVENTION: Identification of Genes

NUMBER OF SEQUENCES: 501

CORRESPONDENCE ADDRESS:
ADDRESSE: Patrea L. Pabst
STREET: 1201 West Peachtree Street
CITY: Atlanta
STREET: 1201 West Peachtree Street
CUTY: Actianta
STREET: USA

SOUNTRY: USA

COUNTRY: USA

CONPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC Compatible
CORPUTER: IBM PC Compatible
CORPUTER: BATCHING SYSTEM: PC-DOS/NS-DOS
SOUPTARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION NUMBER: US/09/201,945
FILING DATE:
CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SOFTWARE Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION DATA:
FILING DATE: US/08/871,355A
FILING DATE: US/08/871,355A
FILING DATE: US/08/871,355A
FILING DATE: US/08/871,355A
FILING DATE: 11-DEC-1995
CLASSIFICATION: 435
FILING DATE: 11-DEC-1995
CLASSIFICATION: 135
FILING DATE: 11-DEC-1995
CLASSIFICATION: 11-DEC-1995
CLASSIFIC
NUMBER OF SEQUENCES: 501
CORRESPONDENCE ADDRESS:
ADDRESSEE: Patrea L. Pabst
ADTREST: 2800 One Atlantic Center
STREET: 1201 West Peachtree Street
                                                                                                                                                                STREE: 1201 West Peachtree Street
CITY: Atlanta
STATE: Georgia
COUNTRY: USA
ZIP: 30309-3450
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPOTER: IBM PC compatible
C
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Best Local Similarity 80.0
Matches 4; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 protein
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HYPOTHETICAL:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-08-871-355A-219
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Length 7;

DB 2;

54.8%; Score 17;

Query Match

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; Sequence 2, Application US/08239854
; Sequence 2, Application US/08239854
; Parent No. 56249004;
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Abe, Etsuko
APPLICANT: Fujiwara, Chie
TITLE OF INVENTION: Peptide or Its Salts
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
ADDRESSEE: P.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ADDRESSE: P.C.

STREET: 1755 Jefferson Davis Highway, Fourth Floor
CITY: Arlington
STATE: Virginia
ZIP: 2202
COMPUTER: BAP EC Compatible
OPERATING SYSTEM: FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/239,854
FILING DATE:
CLASSIFICATION DATA:
APPLICATION NUMBER: US/07/752,426
FILING DATE:
APPLICATION NUMBER: US/07/752,426
FILING DATE: 03-SEP-1990
PRIOR DATE: 24-NOV-1990
PRIOR DATE: 24-NOV-1990
PRIOR DATE: 26-NOV-1990
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 16; DB 1; Length 7; Pred. No. 3.8e+05;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2; Mismatches
PRICING DATE: 03-SEP-1990
PRIOR APPLICATION NUMBER: UP 320,000/90
FILING DATE: 24-NOV-1990
PRIOR APPLICATION NUMBER: UP 324,956/90
FILING DATE: 26-NOV-1990
ATTORNEY/AGENT INFORMATION:
NAME: Oblon, No. 56-2490man F.
REFERENCE/DOCKET NUMBER: 34.618
REPERENCE/DOCKET NUMBER: 363-279-0
TELEPHONE: (703)486-2347
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME: Oblon, No. 5624900man F. REGISTRATION NUMBER: 24,618
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            51.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               , MOLECULE TYPE: peptide US-08-239-854-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity
Matches 3; Conserva
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US-08-239-854-1
; Sequence 1, Application US/08239854
; Patent No. 5624901
; Patent No. 5624901
; Patent No. 5624901
; Patent No. 5624901
; APPLICANT: Suda, Tatsuo
; APPLICANT: Tanihara, Masao
; APPLICANT: Tanihara, Masao
; APPLICANT: Tanihara, Chie
; TITLE OF INVENTION: Peptide or Its Salts
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESSE:
; ADDRESSEE: P.C.
; STREET: 1755 Jefferson Davis Highway, Fourth Floor
; STREET: Arlington
; STATE: Virginia
ZIP: 2222
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
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US-09-428-082B-532
US-09-428-082B-532

; Sequence 532, Application US/09428082B
; Patent No. 6660843
; Patent No. 6660843
; APPLICANT: EBIGS, ULRICH
; APPLICANT: CHEETFAW, JANET C.
APPLICANT: BOONE, THOWAS CHARLES
; TITLE OF INVENTION: WODIFIED PEPTIDES AS THERAPEUTIC AGENTS
; TITLE OF INVENTION: WODIFIED PEPTIDES AS THERAPEUTIC AGENTS
; CURRENT APPLICATION NUMBER: US/09/428,082B
; CURRENT FILING DATE: 1999-10-22
; PRIOR APPLICATION NUMBER: 60/105,371
PRIOR FILING DATE: 1998-10-23
; NUMBER OF SEQ ID NOS: 1133
; SEQ ID NO 532
; LENGTH: 6
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                     57.1%; Pred. No. 3.8e+05;
tive 1; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 6;
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CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/239,854
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 16; DB 4; Pred. No. 3.8e+05;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: ANTIPATHOGENIC PEPTIDE
US-09-428-082B-532
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/752,426
FILING DATE:
APPLICATION NUMBER: JP 233,571/90
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 51.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Best Local Similarity 80.0
Matches 4; Conservative
                     Best Local Similarity 57.1
Matches 4; Conservative
                                                                                                 1 LTLKLSR 7
                                                                                                                                                1 LRLKLPK 7
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OTHER INFORMATION: /note= "The Xaa at position 2 is the D-
OTHER INFORMATION: amino acid of Arg."
                                                                                                                                                        Sequence 117, Application US/08968676
Patent No. 5919639
GENERAL INFORMATION:
APPLICANT: Adams, Sharlene
APPLICANT: Adams, Sharlene
APPLICANT: Xu, Minchen
TITLE OF INVENTION: IMMNOTHERAPY BY MODULATION OF ANTIGEN
NUMBER OF SEQUENCES: 165
CORRESPONDENCE ADDRESS:
ADDRESSEE: Kevin M. Farrell, P.C.
STREET: P.O. Box 999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 121, Application US/08968676
Patent No. 5919639
GENERAL INFORMATION:
APPLICANT: Humphreys, Robert E
APPLICANT: Adams, Sharlene
APPLICANT: Xu, Minzhen
TITLE OF INVENTION: IMMUNOTHERAPY BY MODULATION OF ANTIGEN
NUMBER OF SEQUENCES: 165
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      51.6%; Score 16; DB 2; Length 7; 42.9%; Pred. No. 3.8e+05; live 2; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                  Kevin M. Farrell, P.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: FEATFEL1, Kevin M
REGISTRATION NUMBER: 35,505
REFERENCE/DOCKET NUMBER: REH-5;
TELECOMMUNICATION INFORMATION:
TELEFAX: (207) 363-0528
TELEFAX: (207) 363-0528
INFORMATION FOR SEQ ID NO: 117;
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            3; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   7 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                              STREET: P.O. BOX CITY: York Harbor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: amino acid
STRANDEDNESS: sir
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         linear
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Matches 3; Conserv
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1 LXMKLPK 7
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                                  TLKL 5
                                                                 2 TLKI
                                                                                                                       RESULT 13
US-08-968-676-117
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US-08-968-676-121
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                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 24, Application US/08346333
Patent No. 5677153
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Botstein, David
APPLICANT: Palzkill, Timothy
ITTLE OF INVENTION: Methods for modifying DNA and for
ITTLE OF INVENTION: detecting effects of such modification on interaction of ITTLE OF INVENTION: encoded modified polypeptides with target substrates.
NUMBER OF SEQUENCES: 86
CORRESPONDENCE ADDRESS:
ADDRESSE: Richard F. Trecartin
STREET: 4 Embarcadero Center, Suite 3400
CITY: San Francisco
STATE: California
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER REALABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION NUMBER: US/08/346,333
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING APPLICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/039,501
FILING DATE: 25-CT-1990
APPLICATION NUMBER: US 07/602,158
FILING DATE: 25-CT-1990
ATTORNEY AGENT: NUMBER: 31,801
REGISTRATION NUMBER: 31,801
REFERENCE/DOCKET NUMBER: 3-3469/RFT
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 398-3249
INFORMATION FOR SEQ ID NO: 24:
SEQUENCE (415) 398-3249
REFERENCE/DOCKET NUMBER: 363-279-0
TELECOMMUNICATION INFORMATION:
TELEPAK: (703)521-4500
TELEFAK: (703)486-2347
TELEFAK: (703)486-2347
TELEK: 248855 OPAT UR
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                               50.0%;
                                                                                                                                                                                                                                     Query Match
Best Local Similarity 50.0 Matches 3; Conservative
                                                                                                                                   7 amino acids
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Best Local Similarity 75.0
Matches 3; Conservative
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MOLECULE TYPE: peptide
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US-08-346-333-24
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)GY: linear
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LQIKIS 7
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                94111
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Query Match 51.6%; Score 16; DB 5; Length 7; Best Local Similarity 75.0%; Pred. No. 3.8e+05; Matches 3; Conservative 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Search completed: November 4, 2004, 01:25:37 Job time: 25.6667 secs
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 781-1989
TELEFAX: (415) 398-3249
INFORMATION FOR SEQ ID NO: 24:
SEQUENCE CHARACTERISTICS:
LENGTH: 7 amino acids
TYPE: AMINO ACID
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                      2 TLKL 5
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Sequence 24, Application PC/TUS9107506

Sequence 24, Application PC/TUS9107506

GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Palzkill, Timothy
TITLE OF INVENTION: Methods for modifying DNA and for
TITLE OF INVENTION: detecting effects of such modification on interaction of
TITLE OF INVENTION: encoded modified polypeptides with target substrates.

NUMBER OF SEQUENCES: 86
CORRESPONDENCES: 86
COUNTRY: USA
STATE: California
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            , NAME_KEY: Modified-site
; OTHER INFORMATION: /note= "The Xaa at position 6 is the D-
; OTHER INFORMATION: amino acid of Pro."
US-08-968-676-121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity 42.9%; Pred. No. 3.8e+05;
Matches 3; Conservative 2; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER REALABLE FORM:
COMPUTER: Floppy disk
COMPUTER: Floppy disk
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US91/07506
FILING DATE: 19911021
                                                                                                                          ZIP: 03911

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/NS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/968,676
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CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Trecartin, Richard F.
REGISTRATION NUMBER: 31,801
REFERENCE/DOCKET NUMBER: FP-53469-FC/RFT
                                                                                                                                                                                                                                                                                                                           PILING DATE:
CLASSIFICATION: 424
ATTORNEY TONORMATION:
NAME: PATFELL, Kevin M
REGISTRATION NUMBER: 35,505
REPERVEC/POCKET NUMBER: REH-9601
TELEPHONE: (207) 363-0528
INFORMATION FOR SEQ ID NO: 121:
SEQUENCE CHARACTERISTICS:
LENGTH: 7 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TOPOLOGY: linear MOLECULE TYPE: peptide
                     STREET: P.O. Box 999
CITY: York Harbor
STATE: ME
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 LTLKLSR 7
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1 LRMKLXK 7
                                                                                                     USA
                                                                                                  COUNTRY: US
ZIP: 03911
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4 07:26:54 2004

Thu Nov

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GenCore version 5.1,6
(c) 1993 - 2004 Compugen Ltd.
               Copyright
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OM protein - protein search, using sw model

4, 2004, 01:09:31 ; Search time 18.3333 Seconds (without alignments) 36.737 Million cell updates/sec November Run on:

US-09-712-819D-13

1 LTLKLSR 7 Title: Perfect score: Sequence:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

283416 seqs, 96216763 residues Searched:

457 Total number of hits satisfying chosen parameters:

seq length: 0 seq length: 7 DB DB Minimum I Maximum I

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

PIR_79:*
1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:*

Database

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| | | Description | ribosomal nrotein | q | | - (| | -τ | からからはず ユ はようないしょんな | dlycoprofein compo | DNA FORDISOMETASE | major fat-globule | hypothetical prote | 7 5 | alpha-tubulin Ch | 7 | [| ָ קריים קריים | pitet olloure |) <u>}</u> | | υ | receptor | receptor | י בכית הכים | e protein | _ | dnaA protein - Pse | ibi mitin-i | | | receptor |
|-----|--------|--------------|-------------------|--------|--------|--------|--------|--------|--------------------|--------------------|-------------------|-------------------|--------------------|--------|------------------|--------|--------|---------------------|---------------|------------|--------|--------|----------|----------|-------------|-----------|-----|--------------------|-------------|--------|--------|----------|
| | | ID | S19630 | T13892 | T46627 | E42364 | I49424 | JN0859 | A28709 | E48394 | I48086 | B48394 | I40505 | T14910 | 148126 | B33932 | PN0649 | A30812 | A28340 | ECMUCE | C41225 | PTOROR | PT0577 | PT0700 | 25.22 | 1000 | 900 | B34835 | A43766 | I65546 | PT0518 | PT0662 |
| | | DB | 2 | m | N | 7 | N | 7 | (1 | N | N | N | 7 | 7 | (1 | 0 | 7 | 0 | 0 | N | ď | ı c | 1 0 | 2 | 'n | 1 (| ۷ (| ~ | ~ | ~ | 7 | 7 |
| | | Match Length | 7 | е | 4 | 5 | 9 | 7 | 7 | 7 | 7 | 7 | 4 | 5 | ø | b | 7 | 7 | 7 | 7 | ហ | ı.C | ഗ | Ŋ | ď | u | , ι | 9 | 9 | 9 | 9 | ω |
| 0/0 | Query | Match | 41.9 | S. | 5. | 35.5 | • | 35.5 | 5 | 35.5 | S. | 'n. | 'n | ά. | ď, | 32.3 | 32.3 | 32.3 | 32.3 | 32.3 | σ. | 6 | 29.0 | 29.0 | 6 | . 0 | ٠, | ς, | 29.0 | φ. | ٠. | 29.0 |
| | | Score | 13 | 11 | 11 | 11 | 11 | 11 | 11 | | 11 | 11 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | ወ | 6 | σ | σ | 6 | σ | 10 | י ת | on | σ | σ | 6 |
| | Result | No. | rel | ~ | m | 4 | Ŋ | 9 | 7 | ω | 6 | 10 | 11 | | | 14 | 12 | | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 3 6 | 0 10 | 76 | 27 | 28 | 29 |

| we comcex | ribosomal protein 27.5 kda structura |
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| \$25266 PN0150 \$78024 PT0608 PT0608 PX0008 \$66442 \$09066 A15398 I61883 I34439 I339964 | 139965 G44817 |
| 000000000000000000000000000000000000000 | 10 |
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ALIGNMENTS

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| | | 1.30 |
| | | protein |
| OLT I | 630 | osoma1 |

RESULT 1 \$19630 ribosomal protein L30 - Streptomyces griseus (fragment) C;Species: Streptomyces griseus C;Date: 12-Feb-1993 #sequence_revision 12-Feb-1993 #text_change 06-Jun-1997

Riochi, K.
Int. U. Syst. Bacteriol. 42, 144-150, 1992
A; Title: Blectrophoretic heterogeneity of ribosomal protein AT-L30 among actinomycete g, A; Title: Blectrophoretic heterogeneity of ribosomal protein AT-L30 among actinomycete g, A; Reference number: S19630; MUID:92144363; PMID:1736962
A; Accession: S19630
A; Molacule type: protein
A; Residues: 1-7 < OCH>
A; Experimental source: strain IFO 13189
C; Superfamily: Escherichia coli ribosome
C; Superfamily: Escherichia coli ribosome
C; Keywords: protein biosynthesis; ribosome

; 0

Query Match
Best Local Similarity 40.0%; Pred. No. 2.8e+05,
Matches 2; Conservative 3; Mismatches 0; Indels

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Gaps

||::: LKITQ 7 3 LKLSR 7 ന ò g

RESULT 2 T13892

Cytochrome-c oxidase (EC 1.9.3.1) chain I [imported] - river lamprey mitochondrion (frag Cispecies: mitochondrion Lamperra fluviatilis (river lamprey)
C;Species: mitochondrion Lamperra fluviatilis (river lamprey)
C;Accession: T13892
C;Accession: T13892
M.P. Barriel, V.; Tillier, S.; Janvier, P.; Gachelin, G.
Mol. Biol. Barriel, V.; Tillier, S.; Janvier, P.; Gachelin, G.
A;Title: The main features of the craniate mitochondrial DNA between the ND1 and the CO1
A;Title: The main features of the craniate mitochondrial DNA between the ND1 and the CO1
A;Feference number: Z17775; MUID:97398704; PMID:9254918
A;Molecule type: DNA
A;Molecule type: DNA
A;Molecule type: DNA
A;Residues: 1-3 < DEL>
A;Cross-references: EMBL:Y09528; NID:g2340016; PIDN:CAA70721.1; PID:g4379123
A;Genetics:
C;Genetics:
C;Genetics:
C;Cervetics:
C;Keywords: mitochondrion; oxidoreductase

Query Match 35.5%; Score 11; DB 3; Length 3; Best Local Similarity 66.7%; Pred. No. 2.8e+05; Matches 2; Conservative 1; Mismatches 0; Indels

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Gaps

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Opptidy1-dipeptidase A inhibitory peptide C105 - striped bonito C;Species: Sarda orientalis (striped bonito)
C;Species: Sarda orientalis (striped bonito)
C;Date: 10-Mar-1994 #sequence_revision 10-Mar-1994 #text_change 07-May-1999
C;Date: 10-Mar-1994 #sequence_revision 10-Mar-1994 #text_change 07-May-1999
C;Accession: JN0859
R;Matsumura, N.; Fujii, M.; Takeda, Y.; Shimizu, T.
Biosci. Biotechnol. Biot
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     phosphonoacetaldehyde hydrolase - Bacillus cereus (fragment)
phosphonoacetaldehyde hydrolase - Bacillus cereus
('Species: Bacillus cereus
('Species: Bacillus cereus
('Date: 22-Aug-1988 #sequence_revision 22-Aug-1988 #text_change 30-Sep-1993
('Accession: A28709
R;Olsen, D.B.; Hepburn, T.W.; Moos, M.; Mariano, P.S.; Dunaway-Mariano, D.
Biochemistry 27, 2229-2234, 1988
A;Title: Investigation of the Bacillus cereus phosphonoacetaldehyde hydrolase. Evidence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            glycoprotein component 16/major fat-globule membrane protein/MFG-B8 homolog - bovine (cispecies: Bos primigeniue taurus (cattle)
C;Date: 19-Nov-1993 #sequence_revision 18-Nov-1994 #text_change 07-Feb-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  C;Accession: E48394
R;Mather, I.H.; Banghart, L.R.; Lane, W.S.
Biochem. Mol. Biol. Int. 29, 545-554, 1993
A;Title: The major fat-globule membrane proteins, bovine components 15/16 and guinea-p
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0;
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         Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity 50.0%; Pred. No. 2.8e+05;
Matches 2; Conservative 1; Mismatches 1; Indels
         Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       II-like sequences.
A,Reference number: A48394; MUID:93250576; PMID:8485470
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A, Reference number: A28709; MUID:88241058; PMID:3132206
    .,
             1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2; Conservative
                  2; Conservative
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A,Status: preliminary
A,Molecule type: protein
A,Residues: 1-7 <OLS>
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4 KLEK 7
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R;Ko, M.S.; Wang, X.; Horton, J.H.; Hagen, M.D.; Takahashi, N.; Maezaki, Y.; Nadeau, J.H Mamm. Genome 5, 349-355, 1994  
A;Fitle: Genetic mapping of 40 cDNA clones on the mouse genome by PCR. A;Feference number: 148934; MUID:94319082; PMID:8043949
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(;Species Salmonella typhimurium
C;Date: 24-Jul-1992 #sequence_revision 24-Jul-1992 #text_change 09-Jul-2004
C;Accession: E42364
R;Vogler, A.P.; Homma, M.; Irikura, V.M.; Macnab, R.M.
A;Datceriol. 173, 3564-3572, 1991
A;Title: Salmonella typhimurium mutants defective in flagellar filament regrowth and seq A;Reference number: A42364; MuID:91258342; PMID:1646201
                                                                                                                                                                                                                                                          hypothetical protein c4 - loblolly pine
(5)Species: Pinus taeda (loblolly pine)
(5)Species: Pinus taeda (loblolly pine)
(5)Species: Pinus taeda (loblolly pine)
(5)Accession: T46627
(5)Accession: T46627
(6)Accession: T46627
(7) Furyea, J.; Funkhouser, B.A.; Newton, R.J.; Cairney, J.
(7) Furyea, J.; Funkhouser, B.A.; Newton, R.J.; Cairney, J.
(8) Function of a chitinase homolog which lacks chitin binding sites and is depostration of a chitinase homolog which lacks chitin binding sites and is depostration: T46627
(8) Accession: T46627
(8) Accessio
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A;Cross-references: EMBL:U05745; NID:g497084; PIDN:AAB60481.1; PID:g642831
C;Keywords: hydrolase; serine proteinase
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Best Local Similarity 66.7%; Pred. No. 2.8e+05;
Matches 2; Conservative 1; Mismatches 0; Indels
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A,Status: preliminary; translated from GB/EMBL/DDBJ
A,Molecule type: DNA
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A;Molecule type: DNA
A;Cross-references: U-5 < VOG>
A;Cross-references: UNIPROT:P26416; GB:M62408
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Ajfite: A transcription terminator in the 5' non-coding region of the tyrosyl tRNA syr A;Reference number: 140503; MUID:86274732; PMID:3525162
A;Reference number: 140505
A;Accession: 140505
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-4 <RES>
A;Cross-references: EMBL:X04193; NID:g40233; PIDN:CAA27783.1; PID:g580944
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C;Date: 20-Sep-1999 #sequence_travision 20-Sep-1999 #text_change 21-Jul-2000
C;Accession: T14910
R;Kircher, S.; Ledger, S.; Hayashi, H.; Weisshaar, B.; Schafer, B.; Frohnmeyer, H.
R;Kircher, S.; Ledger, S.; Hayashi, H.; Weisshaar, B.; Schafer, B.; Frohnmeyer, H.
Mol. Gen. Genet. 257, 595-605, 1998
A;Fitle: CPRF4a, a novel plant bill protein of the CPRF family: comparative analysis of A;Reference number: Z18261; MUID:98265918; PMID:9604882
A;Accession: T14910
A;Accession: T14910
A;Residus: preliminary; translated from GB/EMBL/DDBJ
A;Residus: 1-5 <KIR>
A;Residus: 1-5 <KIR>
A;Residus: 1-5 <KIR>
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C;Date: 04-Sep-1997 #sequence_revision 07-Nov-1997 #text_change 05-Nov-1999
C;Accession: 148126
R;Elliott, B.M.; Sarangi, F.; Henderson, G.; Ling, V.
Can. J. Biochem. Cell Biol. 63, 511-518, 1985
A;Title: Cloning of 11 alpha-tubulin gene sequences from the genome of Chinese hamster
A;Reference number: 148126; MUID:86001952; PMID:2931165
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A;Experimental source: ssp. Hamburger Schnitt
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A;Molecule type: DNA
A;Residues: 1-6 <RES>
A;Cross-references: GB:M25895; NID:g341417; PIDN:AAA74493.1; PID:g516601
C;Genetics:
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1; Mismatches 0; Indels
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Pred. No. 2.8e+05;
1; Mismatches 0;
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J. Biochem. 158, 505-510, 1986
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66.7%;
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2 VSR 4
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C;Species: Cricetulus griseus (Chinese hamster)
C;Species: Cricetulus griseus (Chinese hamster)
C;Dete: O2-Jul-1996 #sequence_revision 02-Jul-1996 #text_change 05-Nov-1999
C;Accession: 148086
R;NG, S.W.; Eder, J.P.; Schnipper, L.E.; Chan, V.T.W.
D Biol. Chem. 270, 25850-25858, 1995
A;Title: Molecular cloning and characterization of the promoter for the Chinese hamster A;Reference number: 148086, MulD:96029684; PMID:7592770
A;Accession: 148086
A;Accession: 148086
A;Status: preliminary; translated from GB/BMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-7 cRES>
A;Cross-references: EMBL:U34196; NID:91041231; PIDN:AAC52315.1; PID:91041232
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().Species: Cavia porcellus (guinea pig)
().Date: 19-Nov-1993 #sequence_revision 18-Nov-1994 #text_change 23-Mar-1995
().Accession: B48394
().Mather, I.H.; Banghart, L.R.; Lane, W.S.
Biochem. Mol. Biol. Int. 29, 545-554, 1993
A/Title: The major fat-globule membrane proteins, bovine components 15/16 and guinea-pig illike sequences.

My Reference number: A48394; MUID: 93250576; PMID: 8485470
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          A, Experimental source: milk
A, Note: sequence extracted from NCBI backbone (NCBIP:131450)
C, Keywords: glycoprotein
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A;Residues: 1-7 <MAT>
A;Experimental source: milk
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pullulanse (EC 3.2.1.41) - Bacillus sp. (strain S-1) (fragment)

pullulanse (EC 3.2.1.41) - Bacillus sp. (strain S-1) (fragment)

C;Species: Bacillus sp.
C;Date: 19-May-1994 #sequence_revision 19-May-1994 #text_change 03-Jun-2002

C;Accession: PNG649

B;Kim, C.H.; Choi, H.I.; Lee, D.S.
Biosci. Biotechnol. Biochem. 57, 1632-1637, 1993

A;Title: Purification and biochemical properties of an alkaline pullulanase from alkalop
A;Reference number: PN0649; MUID:94080025; PMID:7764261

A;Accession: PN0649

A;Accession: PN0649

A;Molecule type: protein
A;Accession: PN0649

C;Comment: This enzyme is used togther with glucoamylase to improve the efficiency of st
ntent in high maltose syrups.
C;Keywords: glycosidase; hydrolase; polysaccharide degradation
Ig mu chain D region (D23) - mouse
C; Species: Mus musculus (house mouse)
C;Date: 09-Mar-1990 #sequence_revision 09-Mar-1990 #text_change 16-Aug-1996
C;Date: 09-War-1990 #sequence_revision 09-Mar-1990 #text_change 16-Aug-1996
C;Accession: B33932
R;Baccala, R.; Vo Quang, T.; Gilbert, M.; Ternynck, T.; Avrameas, S.
Proc. Natl. Acad. Sci. U.S.A. 86, 4624-4628, 1989
A;Title: Two murine natural polyreactive autcantibodies are encoded by nonmutated germ-1A;Accession: B33932
A;Accession: B33932
A;Accession: B33932
A;Actus: preliminary
A;Actus: nanh
A;Residues: 1-6 cBAC>
A;Cross-references: GB:MZ7107
C;Keywords: immunoglobulin
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32.3%; Score 10; DB 2; Length 7;
Best Local Similarity 50.0%; Pred. No. 2.8e+05;
Matches 2; Conservative 1; Mismatches 1; Indels
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Best Local Similarity 66.7%;
Matches 2; Conservative
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Search completed: November 4, 2004, 01:24:17 Job time: 18.3333 secs

vibrio

P13071 citrobacter P38639 mus musculu P83073 bacillus ce P25154 oryctolagus P23131 clostridium P23210 human herpe P82158 cydia pomon P35919 achatina fu P35920 achatina fu P35921 achatina fu

OM protein

Run on:

Sequence:

Minimum DB Maximum DB

Database

No.

Searched:

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Spinacia oleracea (Spinach).

Eukaryota, Viridiplantae, Streptophyta; Embryophyta, Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
Caryophyllales; Amaranthaceae; Spinacia.
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Saccharomycetales; Saccharomycetaceae; Saccharomyces.
NCBI_TaxID=4932;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STRAIN=D273-10B;
MEDLINE=81069885; PubMed=6254986;
Bonitz S.G., Coruzzi G., Thalenfeld B., Tzagoloff A., Macino G
Bonitz S.G., Coruzzi G., Thalenfeld B., Tzagoloff A., Macino G
"Assembly of the mitochondrial membrane system: Structure and
nucleotide sequence of the gene coding for subunit 1 of yeast
cytochrome oxidase.";
J. Biol. Chem. 255:11927-11941(1980).
EMBL; V00694; CAA24066.1;
GO; GO:0005739; C:mitochondrion; IEA.
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7. 1.8e+06; Indels
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01-07N-2000 (TrEMBLrel. 14, Created)
01-07N-2000 (TrEMBLrel. 14, Last sequence update)
01-0CT-2003 (TrEMBLrel. 25, Last annotation update)
Chloroplast 50S ribosomal protein L10 beta (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                                               01-FEE-1997 (TrEMBLrel. 02, Created)
01-FEE-1997 (TrEMBLrel. 02, Last sequence update)
01-UNN-2003 (TrEMBLrel. 24, Last annotation update)
1nside intron 5 (Fragment).
Saccharomyces cerevisiae (Baker's yeast).
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7 AA; 859 MW; 75B7232362CDC460 CRC64;
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100.0%; Pred. No. ...
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ACPH RABLT
UNOC CLOPA
VP19 HHV1K
ALLIT CYDDO
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WWA3 ACHPU
WWA3 ACHPU
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UF01_MOUSE
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MEDLINE-20435798; PubMed-10874046;
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         GenCore version 5.1.6 (c) 1993 - 2004 Compugen Ltd.
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1: uniprot_sprot:*
2: uniprot_trembl:*
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Match Length
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                                                                                                                                                                                  Name=PF-50;
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XM MEDLINE=20435798; PubMed=10874046;

XM MEDLINE=20435798; PubMed=10874046;

XTHE PLASTIC STRAIN=CV. Subramanian A.R.;

The plastid ribosomal proteins. Identification of all the proteins in the plastid ribosomal proteins. Identification of all the proteins in the plastid ribosomal proteins. Identification of all the proteins in the plastid ribosomal proteins. Identification of all the proteins in the plastid ribosomal proteins. Identification of all the proteins in the plastid ribosomal proteins. Identification of all the proteins in the protein ribosomal proteins. In the plastid ribosomal proteins. In the plastid ribosomal protein; rRNA-binding.

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Application ribosomal protein; rRNA-binding.
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      Yamaguchi K., Subramanian A.R.;

"The plastid ribosomal proteins. Identification of all the proteins in the plastid ribosomal proteins. Identification of all the proteins in the 50 S subunit of an organelle ribosome (chloroplast).";

"In Biol. Chem. 275:28466-28482 (2000).

"In Shol. Chem. 275:28466-28482 (2000).

"In STATIANT THIS PROTEIN BINDS DIRECTLY TO 238 RIBOSOMAL RNA.

"IN STATIANT THIS PROTEIN BINDS DIRECTLY TO 238 RIBOSOMAL RNA.

"IN STATIANT BELONGS TO THE LIDP FAMILY OF RIBOSOMAL PROTEINS.

"IN STATIANT PRODUCTOR TO THE LIDP FAMILY OF RIBOSOMAL PROTEINS.

"OF GO: 001099507; C:chloroplast; IEA.

"GO; GO: 0010943; F:RRNA binding; IEA.

"THEPPRO; PRROBESOMAL LID." PARTAL.

"THEPPRO; RIBOSOMAL LID." PARTAL.

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01-JUN-2000 (TrEMBLrel. 14, Last sequence update)
01-JUN-2000 (TrEMBLrel. 14, Last sequence update)
01-JUN-2003 (TrEMBLrel. 15, Last annotation update)
Chloroplast 50S ribosomal protein L10 gamma (Fragment).
Spinacia oleracea (Spinach).
Eukaryota, Viridiplantae, Streptophyta, Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
Caryophylales, Amaranthaceae; Spinacia.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 35.5%; Score 11; DB 2; Length 6; Best Local Similarity 66.7%; Pred. No. 1.8e+06; Matches 2; Conservative 1; Mismatches 0; Indels
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Matches 2; Conservative
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MEDLINE=22990544; PubMed=14629041;
MEDLINE=2290544; PubMed=14629041;
Stevenson B., Miller J.C.;
"Intra- and interbacterial genetic exchange of Lyme disease spirochete erp genes generates sequence identity amidst diversity.";
J. Mol. Evol. 57:309-324 (2003).
EMBL; AX142106; AAN17857.1; -.
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MEDLINE=22056123; PubMed=12060770;
Becreminkel N., Schmidt B., Walter H., Kaiser R., Lengauer T.,
Becreminkel N., Schmidt B., Walter H., Kaiser R., Lengauer T.,
Boffmann D., Korn K., Selbig J.;
"Diversity and complexity of HIV-1 drug resistance: a bioinformatics approach to predicting phenotype from genotype.";
approach to predicting phenotype from genotype.";
Proc. Natl. Acad. Sci. U.S.A. 99:8271-8276(2002).
EMBL; AF347267; AAK32344.1; -.
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Miller J.C., Stevenson B.;
"Immunological and genetic characterization of Borrelia burgdorferi
"Immunological pap proteins.";
Microbiology 149:1113-1125(2003).
                                                                                                                                                                Plasmid group cp32-13.
Bacteria; Spirochaetes; Spirochaetales; Spirochaetaceae; Borrelia.
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Best Local Similarity 66.7%; Pred. No. 1.8e+06;
Matches 2; Conservative 1; Mismatches 0; Indels
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01-0CT-2002 (TrEMBLrel. 22, Last sequence update)
01-0CT-2002 (TrEMBLrel. 22, Last annotation update)
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NCBI_TaxID=11676;
                    Last sequence update)
Last annotation update)
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7 AA; 928 MW; 6337233050437350 CRC64;
                                                                                                                                Borrelia burgdorferi (Lyme disease spirochete)
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Human immunodeficiency virus 1.
01-MAR-2003 (TrEMBLrel. 23, 01-MAR-2003 (TrEMBLrel. 23, 01-JUN-2003 (TrEMBLrel. 24, PF-50 protein (Fragment).
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Gaps

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Length 7; Indels

RESULT 6 P82541 ID P8254

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Sex pheromone cCF10.
Enterrococcus faecalis (Streptococcus faecalis).
Bacteria: Firmicutes; Lactobacillales; Enterococcaceae; Enterococcus.
NCBI_TaxID=1351;
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Proteomics 2:765-774(2002).
-!- MISCELLANEOUS: On the 2D-gel the determined MW of this unknown protein is: 15 kpa.

NON TER.
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01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
Unknown protein from 2D-page (Fragment)
Lactobacillus sanfranciscensis (Lactobacillus sanfrancisco)
Bacteria; Firmicutes; Lactobacillales; Lactobacillaceae;
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Amidation; Direct protein sequencing; Hormone.

MOD_RES 7 7 Leucine amide.

SEQÜENCE 7 AA; 831 MW; 6734072687669DB0 CRC64;
                                                                                                                                                           32.3%; Score 10; DB 1; Le llarity 66.7%; Pred. No. 1.8e+06; Conservative 1; Mismatches 0;
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01-FEB-1991 (Rel. 17, Last sequence update)
05-UUL-2004 (Rel. 44, Last annotation update)
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                                                                                                                               01-OCT-2000 (TrEMBLrel. 15, Created)
01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
01-OCT-2003 (TrEMBLrel. 15, Last sequence update)
01-OCT-2003 (TrEMBLrel. 15, Last annotation update)
Chlocoplast 30s ribosomal protein 819 beta (Fragment).
Chlocoplast a oleracea (Spinach).
Chlocoplast.
Bukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Caryophylajes, Magnoliophyta; eudicocyledons; core eudicots; Caryophylales; Amaranthaceae; Spinacia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  "Catch-relaxing peptide isolated from Mytilus pedal ganglia.";
Brain Res. 422:374-376(1987)
-1- FUNCTION: This peptide exhibits both potentiating (contraction)
and inhibitory (relaxation) effects on the anterior byssus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          01-MAR.1989 (Rel. 10, Created)
01-MAR.1989 (Rel. 10, Last sequence update)
05-JUL.2004 (Rel. 44, Last annotation update)
Catch-relaxing peptide (CARP).
Mytilus edulis (Blue mussel).
Bukaryota, Metazoa; Mollusca; Bivalvia; Pteriomorphia; Mytiloida;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ô
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Hirata T., Kubota I., Takabatake I., Kawahara A., Shimamoto N.,
Muneoka Y.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        6 AA; 732 MW; 63333735A411C000 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Chloroplast; Ribosomal protein; rRNA-binding.
                                                                                                          6 AA.
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Matches 2; Conservative
                                                                                                          PRELIMINARY;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  retractor muscle.
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SLK 5
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SEQUENCE
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CARP MYTED
DC 01-MAR-
DT 01-MAR-
DT 05-MAR-
DT 05-MAR-
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645 MW; 69D4073767400000 CRC64;
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                                 Similarity 50.0
2; Conservative
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Matches 2; Conserv
    5 AA;
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1 LPLR 4
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                                                                                                                                                                                                                  Alcaligenes sp.
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    SEQUENCE
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UC24_MAIZE
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                                                Matches
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Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PubMed=6137771;
Dockray G.J., Reeve J.R. Jr., Shively J., Gayton R.J., Barnard C.S.;
"A novel active pentapeptide from chicken brain identified by
antibodies to FWRFamide.";
Nature 305:328-330(1983).
                                                                                                                                                                                                           Rattus sp.
Eukaryota, Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Butheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
NCBI_TaxID=10118;
                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                       Gaps
                                                                                                                                                                                                                                                                                                Sato H., Aono S., Kashiwamata S., Koiwai O.;
"Genetic defect of bilirubin UDP-glucuronosyltransferase in the hyperbilirubinemic Gun rat.";
Biochem. Biophys. Commun. 177:1161-1164(1991).
EMBL, S38636; AAB19259.1;
GO; GO:0016740; F:transferase activity; IEA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  -:- FUNCTION: May function as a neurotransmitter or modulator.
-:- SUBCELLULAR LOCATION: Secreted.
-:- SIMILARITY: Belongs to the FARP (FMRFamide related peptide)
                                                                                                                                                                                                                                                                                                                                                                                                                                    ;
                                       ;
                Score 10; DB 2; Length 7;
Pred. No. 1.8e+06;
1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                   0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                              DB 2; Length 4; . 1.8e+06;
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GO; GO:0007218; P:neuropeptide signaling pathway; TAS.
Amidation; Direct protein sequencing; Neuropeptide.
MND RRS
5 5 Phenylalanine amide.
                                                                                                                                                   008433;
01-NOV-1996 (TrEMBLrel. 01, Created)
01-NOV-2096 (TrEMBLrel. 01, Last sequence update)
01-NOV-2003 (TrEMBLrel. 24, Last annotation update)
Bilirubin UDP-Glucuronosyltransferase (Fragment).
                                                                                                                                                                                                                                                                                                                                                                               4 4 AA; 473 MW; 633732C42000000 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           05-JUL-2004 (Rel. 44, Created)
05-JUL-2004 (Rel. 44, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
05-JUL-2004 (Rel. 44, Last annotation update)
Gallus gallus (Chicken).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5 AA.
                                                                                                                                           4 AA.
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100.0%; Pred. No. 1.8
ative 0; Mismatches
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                  32.3%;
        Query Match
Best Local Similarity 6b.,
2, Conservative
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Matches 2; Conservative
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                                                                                                                                           PRELIMINARY;
                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A.
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1 VTL 3
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                                                                                                                                                                                                                                                                              STRAIN=Gunn;
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Q08433
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Touzet P., Ricoardi F., Morin C., Damerval C., Huet J.-C.,
Pernollet J.-C., Zivy M., de Vienne D.,
"The maize two dimensional gel protein database: towards an integrated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      oxidase from Alcaligenes sp.";
J. Blochem. 88:197-203(1980).
-!- CATALYTIC ACTIVITY: Choline + O(2) = betaine aldehyde + H(2)O(2).
PIR; A15398; A15398.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                           Gaps
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Theor. Appl. Genet. 93:99'-1005(1996).
-!- MISCELIANBOUS: On the 201 the determined pl of this unknown protein is: 6.0, its MW is: 30.0 kDa.
Maize-2DPAGE; P80630; COLEOPTILE.
MaizeDB; 123956; -.
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Zea mays (Maize).
Eukaryota, Viridiplantae, Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;
PACCAD clade; Panicoideae; Andropogoneae; Zea.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDIJUE-81006769; PubMed-6997283;
Ohta-Fukuyama M., Miyake Y., Emi S., Yamano T.;
"Identification and properties of the prosthetic group of choline
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             01-0CT-1996 (Rel. 34, Created)
01-0CT-1996 (Rel. 34, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
Unknown protein from 2D-PAGE of etiolated coleoptile (Spot 447)
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                                                           1; Indels
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Length 5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          7 AA; 839 MW; 7415B1E457644AC0 CRC64;
29.0%; Score 9; DB 1; Lt
50.0%; Pred. No. 1.8e+06;
                                                                                                                                                                                                                                                                                                                                                                                             01-APR-1990 (Rel. 14, Created)
01-APR-1990 (Rel. 14, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
Choline oxidase (EC 1.1.3.17) (Fragment).
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                                                              1; Mismatches
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Search completed: November 4, 2004, 01:23:17 Job time: 99.6667 secs
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Plant Mol. Biol. 34:275-286(1997).
EMBL, U75692; AAC49682.1,
GO; GO:0016847; F:1-aminocyclopropane-1-carboxylate synthase . . .; IEA.
GO; GO:0016829; F:1yase activity; IEA.
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Lycopersicon sculentum (Tomato).
Eukaryota, Viridiplantae, Streptophyta, Embryophyta, Tracheophyta,
Spermatophyta, Magnoliophyta, eudicotyledons, core eudicots, asterids,
lamiids, Solanales, Solanaceae, Solanum.
                                                                                                                                                                                                                                                             Gaps
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Lee C.-C., Yazdani A., Wehnert M., Bailey J., Couch L., Xiong M.,
Coolbaugh M.I., Chinault C.A., Baldini A., Lindsay E.A., Zhao Z.-Y.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi,
Mammalia, Butheria, Primates, Catarrhini, Hominidae, Homo.
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"Isolation of chromosome-specific genes by reciprocal probing of
"Irayla CDNAs and cosmid libraries.";
Hum. Mol. Genet. 0:0-0(1995).
EMBL; L32077; AAA73887.1; -...
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01-MAX-1997 (TrEMBLrel. 03, Last sequence update)
01-UNN-2003 (TrEMBLrel. 24, Last annotation update)
1-aminocyclopropane-1-carboxylate synthase (BC 4.4.1.14)
(Fragment).
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GenCore version 5.1.6 (c) 1993 - 2004 Compugen Ltd.
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- protein search, using sw model OM protein

4, 2004, 00:54:10 ; Search time 92.3333 Seconds November Run on:

(without alignments) 27.196 Million cell updates/sec

US-09-712-819D-13 31 1 LTLKLSR 7 score: Title: Perfect a

Sequence:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

2002273 seqs, 358729299 residues Searched:

116873 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 7

Maximum Match 100% Listing first 45 summaries Post-processing: Minimum Match 0%

A_Geneseq_23Sep04:* Database

geneseqp1980s:* geneseqp2000s:* geneseqp2001s:* geneseqp2001s:* geneseqp2003as:* geneseqp2003as:* geneseqp2004s:* Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| | Descripti | Abb66518 Himan RSV | Respir | | 8 RSV anti | o | 'n | σ | | M | | N | 6 | 6 | m | 2 | 6 | 1 Multir | | 0 | N | LO | 2 Alzheim | _ | 1 Vitamin | |
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| SUMMAKIES | QI | ABP66518 | ABU69381 | ADE35876 | ADI57038 | AAW69269 | AAY42013 | AAY41889 | ABB55870 | ABB56283 | ABB55981 | AAU28602 | AAU24969 | AAU26249 | AAU15313 | ABB52355 | ABP66489 | ABG78901 | ABG78730 | ABP58010 | ABU69352 | ABP57255 | ABR59042 | ADE35847 | ADH35821 | ADH35827 |
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ALIGNMENTS

Human; variable heavy domain; variable light domain; CDR; VH; VL; RSV; complementarity determining region; respiratory syncytial virus; virucide; pulmonary; antiinflammatory; cardiant; anti-HTV; vaccine; immunostimulant; gene therapy; cystic fibrosis; bone marrow transplant; bronchopulmonary dysplasia; congenital heart disease; congenital immunodeficiency; acquired immunodeficiency. Human RSV antibody VL CDR2 fragment. ABP66518 standard; peptide; 7 AA. (first entry) 04-DEC-2002 ABP66518; ABP66518

Homo sapiens.

WO200243660-A2.

06-JUN-2002.

28-NOV-2001; 2001WO-US044807.

28-NOV-2000; 2000US-00724396. 28-NOV-2000; 2000US-00724531.

(MEDI-) MEDIUMMUNE INC.

Johnson LS; Koenig S, Young JF,

WPI; 2002-706803/76.

Antibody for treating respiratory syncytial virus (RSV) infection, comprises a variable heavy/light domain or complementarity determining regions 1 - 3 of variable light/heavy chains, that immunospecifically binds to RSV antigen.

Claim 8; Page 55; 298pp; English.

The invention relates to a novel antibody comprising a variable heavy (VH) domain, variable light (VL) domain, VH complementarity determining region (CDR)-1, VH CDR2, VH CDR3, VL CDR1, VL CDR2 or VL CDR3, where the antibody immunospecifically binds to a respiratory syncytial virus (RSV) antigen, and where the antibody is not SYNAGIS (RTM). The antibody of the invention has virucide, pulmonary, antiinflammatory, cardiant, anti-HIV, and immunostimulant activity. The polynucleotides of the invention may

Length 7;

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Respiratory syncytial virus; RSV; vaccine; antibody; variable heavy domain; VH; variable light domain; VL; complementarity determining region; CDR; CDR1; CDR2; CDR3; RSV infection; cystic fibrosis; bronchopulmoary dysplasia; congenital heart disease; congenital immunodeficiency; acquired immune deficiency;
     for
also
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New antibody comprising a variable heavy (VH) or variable light (VL) domain or complementarity determining region (CDR), such as CDR1, CDR2, or CDR3, useful for preventing or treating a respiratory syncytial virus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention describes an antibody comprising a variable heavy (VH) or variable light (VL) domain or complementarity determining region (CDR), such as CDR1, CDR2, or CDR3, which immunospecifically binds to a respiratory syncytial virus (RW) antigen and is not SYNAGIS (RTW). The antibody, pharmaceutical compositions and methods are useful for preventing, treating or ameliorating a RSV infection in patients with cystic fibrosis, bronchopulmonary dysplasia, congenital heart disease, congenital immunodeficiency, or acquired immune deficiency, or patients having had a bone marrow transplant or the elderly. This is the amino acid sequence of a respiratory syncytial virus (RSV) antibody peptide
have a use in a vaccine, and in gene therapy. The antibody is useful for treating or ameliorating a RSV infection in a human. The antibody is all useful for preventing, treating or ameliorating one or more symptoms associated with RSV infection in a mammal, e.g. cystic fibrosis, bronchopulmonary dysplasia, congenital heart disease, congenital immunodeficiency or acquired immunodeficiency, or after a bone marrow transplant. The sequence represents a complementary determining region peptide from a human RSV antibody of the invention
                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                            ;
                                                                                                                                                                                                                                          0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Respiratory syncytial virus (RSV) antibody fragment #126
                                                                                                                                                                                                        Length 7;
                                                                                                                                                                                                        Score 20; DB 5; I
Pred. No. 1.7e+06;
l; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Johnson LS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 8; Page 24; 165pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                              ABU69381 standard; peptide; 7 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               28-NOV-2001; 2001US-00996288
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    28-NOV-2000; 2000US-00724531.
                                                                                                                                                                                                        64.5%;
80.0%;
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                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      bone marrow transplant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (MEDI-) MEDIMMUNE INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Koenig S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2003-340947/32.
                                                                                                                                                                                                                         Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RSV) infection
                                                                                                                                                                                                                                                                                  2 TLKLS
                                                                                                                                                                       Sequence 7 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             28-NOV-2002.
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                                                                                                                                                                                                         Query Match
                                                                                                                                                                                                                                              Matches
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Sequence 7 AA;

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The invention relates to a method of preventing, treating or ameliorating one or more symptoms associated with a respiratory syncytial virus (RSV) infection in a mammal. A sustained release formulation comprising one or more more mithodies or their fragments that immunospecifically bind to one or more more RSV antigens in a paramaceutical composition comprising one or more RSV antigens formulated for pulmonary delivery is useful for preventing, treating or aneliorating one or more symptoms associated with a RSV infection in a mammal by administering the formulation to the mammal, or the composition to the lungs of the mammal. The antibodies bind to RSV antigen with a high affinity and/or high avidity. The methods use lower doses of antibodies which immunospecifically bind to RSV antigen, and which a more effective prophylaxis. The present sequence or egic represents the amino acid sequence of a complementarity determining region based on the SYNAGIS antibody.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Preventing, treating or ameliorating symptoms associated with respiratory syncytial virus infection in mammal by administering antibodies or their fragments that immunospecifically bind to RSV antigens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                   respiratory syncytial virus; RSV infection; high affinity antibody; high avidity antibody; low antibody dose; more effective prophylaxis; complementarity determining region; CDR; human.
                                 Gaps
                                                                                                                                                                                                                                                                          SYNAGIS antibody based light chain variable region 2, VL2, CDR #54.
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                               0; Indels
 Score 20; DB 6; 1
Pred. No. 1.7e+06;
                                 1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 111; SEQ ID NO 164; 161pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Johnson LS;
                                                                                                                                                                              ADE35876 standard; peptide; 7 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      28-NOV-2000; 2000US-00724396.
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80.0%;
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64.5%;
80.0%;
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                                   4; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Koenig S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (YOUN/) YOUNG J F.
(KOEN/) KOENIG S.
(JOHN/) JOHNSON L S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2003-874589/81.
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Best Local Similarity
Matches 4; Conserv
   Query Match
Best Local Similarity
Matches 4; Conserv
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                                                                  2 TLKLS
                                                                                                 TMKLS
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                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens.
                                                                                                                                                                                                                                               29-JAN-2004
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                                                                                                                                                                                                                                                                                                                                                                           Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Young JF,
                                                                                                                                                                                                                 ADE35876;
                                                                                                                                                   RESULT 3
                                                                                                                                                                    ADE35876
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Location/Qualifiers

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Liquid antibody formulation, useful for treating symptoms associated with respiratory syncytial virus (RSV) infection, comprising antibody or its fragment binding immunospecifically to RSV antigen and histidine.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to a liquid antibody formulation comprising 15 or more mg/ml of antibody, or its fragment that immunospecifically binds to a respiratory syncytial virus (R&V) antigen and histidine in an aqueous carrier. The formulation is useful for preventing, treating or ameliorating one or more symptoms associated with a R&V infection in a subject, which involves administering a prophylactically or therapeutinally effective amount of the formulation. The formulation is a stable liquid formulation of an anti-RSV antibody effective in preventing or treating RSV infection. The present sequence represents the amino acid sequence of a RSV antibody light chain variable region CDR2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
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                                                                                                                                                                            RSV antibody light chain variable region CDR2 #44.
                                                                                                                                                                                                                                            human, liquid antibody formulation, antibody, respiratory syncytial virus, RSV; RSV infection.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Disclosure; SEQ ID NO 164; 169pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Haemagglutinin heavy chain (HA1) fragment.
ADI57038 standard; peptide; 7 AA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 14-JUN-2002; 2002US-0388920P
                                                                                                                      (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Oliver CN, Allan CB,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (MEDI-) MEDIMMUNE INC.
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                                                                                                                                                                                                                                                                                                                                     Homo sapiens
                                                                                                                      06-MAY-2004
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                                                            ADI57038;
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This sequence represents a fragment of the heavy chain (HA1) of the haemagglutinin of influenza virus. This sequence was used to test the carrylotylated peptide polymer of the invention. The peptide polymers are carrylotylated peptide polymers of the invention. The peptide polymers are used to raise an immune response to a peptide epitope (such as this case to an be prepared with virtually any number of the same or different epitopes by a method that allows purification of the individual determinants, avoids errors inherent in long sequential syntheses in which protected peptide fragments are not used, thus avoiding solubility and purification problems. Multiple copies of many different peptide epitopes may be incorporated into a single polymeric structure to allow cullisation of the range of T cell epitopes required for outbred populations in conjunction with epitopes representing different abdonce in synthetic vaccine technology
                                                                                                                                                                                                                                                                                                                                                                                         Acryloylated peptide polymers - useful for synthetic vaccine technology, for raising an immune response to peptide epitope and as diagnostic tool.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human; rheumatoid arthritis; RA; diagnosis; RPI; RADF; detection; rheumatoid arthritis diagnostic feature; ERPI; synovial fluid; rheumatoid arthritis diagnostic protein isoform; screening; expression reference protein isoform; prognosis.
                                           /note= "linked to acryloylated peptide polymer"
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                                                                                                                                                                                                                                                                                                              Ede NJ;
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Pred. No. 1.7e+06;
1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                              Brown LE, Zeng W,
                                                                                                                                                                                                                                                                INST MEDICAL RES WALTER & ELIZA.
                                                                                                                                                                                                                 COUNCIL QUEENSLAND INST MEDICAL RES. COMMONWEALTH SCI & IND RES ORG. UNIV MELBOURNE.
                                                                                                                                                                                                                                                                                                                                                                                                                                     Example 1; Page 20; 77pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAY42013 standard; peptide; 7 AA.
                                                                                                                                                                                                                                                                                                             Obrien-Simpson NM,
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                                                                                                                                        98WO-AU000076.
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97CA-02217321
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80.0%;
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Matches 4; Conserv
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Misc-difference
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                                                                                                                                        10-FEB-1998;
                                                                        WO9834968-A1
                                                                                                                                                                   11-FEB-1997;
                                                                                                                                                                                  03-OCT-1997;
                                                                                                                                                                                                                                                                                                          Jackson DC,
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                                                                                                         13-AUG-1998
                                                                                                                                                                                                                                                                                                                             Brandt ER,
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(CSLC-)
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Matches

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Homo sapiens

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arthritis (RA) using two-dimensional electrophoresis to generate a two-
arthritis (RA) using two-dimensional electrophoresis to generate a two-
dimensional array of features. The method can be used for screening,
diagnosis and prognosis of RA in a subject or for monitoring the effect
of an anti-RA drug or therapy administered to a subject. The method
comprises: (a) analysing a sample of serum or plasma and optionally
synovial fluid by two-dimensional electrophoresis, to generate a two-
dimensional array of features; (b) identifying at least one chosen
feature whose relative abundance correlates with the presence or absence
of RA, and (c) comparaing the abundance of each chosen feature in the
sample with the abundance of that chosen feature in serum or plasma from
one or more persons without RA, where the relative abundance of the
composen feature or features in the sample indicates the presence or a
beence of RA in the subject. The method can also be used in clinical
studies for testing drugs for therapy of RA, for purification of RA-
diagnostic protein isoforms (RPIS), and for production of antibodies to
studies for testing drugs for therapy of RA, for purification of RA-
diagnostic feature (RADF) proteins can be used to identify
compounds that promote or inhibit their activity, which are then used as
RA drugs. Nucleic acid encoding RADFs can be used in gene therapy
compounds that promote or inhibit their activity, which are then used as
RAY42103 represent expression reference probes for RPIS, which are all
AAX25066 to AAZ25068 represent degenerate probes for RPIS, which are all
customs are all the exemplification of the present invention
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                                                                                                                                                                                                                                                                                                                                             Diagnosis of human rheumatoid arthritis by two-dimensional
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   61.3%; Score 19; DB 2; Length 7; 66.7%; Pred. No. 1.7e+06; ive 1; Mismatches 1; Indels
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                                                                                                                                                                                      (OXFO-) OXFORD GLYCOSCIENCES UK LTD.
                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure; Page 18; 157pp; English.
                                                                                                                                                                                                                                        Townsend RR;
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                                                                           15-MAR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                arthritis (RA) using two-dimensional electrophoresis to generate a two-dimensional array of features. The method can be used for screening, diagnosis and prognosis of RA in a subject or for monitoring the effect of an anti-RA drug or therapy administered to a subject. The method of an anti-RA drug or berapy administered to a subject. The method of an anti-RA drug or berapy administered to a subject. The method of an anti-RA drug or beares of serum or plasma and optionally synovial fluid by two-dimensional electrophoresis, to generate a two-dimensional array of features; (b) identifying at least one chosen feature whose relative abundance correlates with the presence or absence of RA, and (c) comparing the abundance of each chosen feature in the sample with the abundance of that chosen feature in serum or plasma from one or more persons without RA, where the relative abundance of the chosen feature or features in the sample indicates the presence or absence of RA in the subject. The method can also be used in clinical studies for testing drugs for therapy of RA, for purification of RA-diagnostic feature (RAPIS), and for production of antibodies to RPIS. The RA-diagnostic feature (RAPIS) proteins can be used to identify compounds that promote or inhibit their activity, which are then used as RAY42103 represent RAPIS peptides, ARX41844 to ARX42104 represent RAPIS peptides, ARX2101 represent expression reference protein isoform peptides and AXX2103 represent expression reference protein isoform peptides and AXX22066 to AXZ25068 represent envelopes for RPIS, which are all used in the exemplification of the present invention
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                                                                                                                                                                                                                                                   (OXFO-) OXFORD GLYCOSCIENCES UK LTD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Disclosure; Page 21; 157pp; English
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TLMISR 7
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                                    WO9947925-A2
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Gaps 0;

14-MAR-2001; 2001WO-GB001106.

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AAY41889;

RESULT 7 AAY41889

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Query Match

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The invention relates to screening, diagnosis or prognosis of Vascular Dementia (VD) in a subject comprising analysing body fluid from the Subject by 2-diamensional (2-D) electrophoresis to generate a 2-D array of features containing at least one chosen feature whose relative abundance correlates with the presence, absence, stage or severity of VD or predicts the onset or course of VD, especially detecting in a sample of cerebrospinal fluid (CSF) from the subject one of 223 VD-associated protein isoforms (VPIS) (ABB55801-ABB56255) as fully defined in the specification. Detecting VD-associated features and VPI is useful for the specification, or prognosis of VD, for determining the stage or severity of VD, for identifying a subject at risk of VD or for monitoring the effect of therapy administered to a subject having VD. Nucleic acids encoding a VPI or inhibiting the function of a VPI are useful for the treatment of VD and for gene therapy
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                                                                                                                                                                         Screening, diagnosis or prognosis of vascular dementia (VD), useful for determining stage of VD and monitoring the effect of VD therapy, comprises analyzing body fluid by 2-dimensional electrophoresis for features correlated with VD.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              61.3%; Score 19; DB 4; Length 7; 66.7%; Pred. No. 1.7e+06; 1; Mismatches 1; Indels
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                                                                            OXFO-) OXFORD GLYCOSCIENCES UK LTD.
                                                                                                                Rohlff C;
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                                                                                                                                                                                                                                                       Claim 6; Page 31; 151pp; English.
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                15-MAR-2000; 2000GB-00006285.
24-NOV-2000; 2000GB-00028734.
28-NOV-2000; 2000US-00724391.
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24-NOV-2000; 2000GB-00028734.
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                                                                                                             Herath HWAC,
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The invention relates to screening, diagnosis or prognosis of Vascular

Dementia (VD) in a subject comprising analysing body fluid from the

subject by 2-dimensional (2-D) electrophoresis to generate a 2-D array of

features containing at least one chosen features whose relative abundance

correlates with the presence, absence, stage or severity of VD or

predicts the onset or course of VD, especially detecting in a sample of

cerebrospinal fluid (GSP) from the subject one of 223 VD-associated

protein isoforms (VPIS) (ABB55801-ABB56295) as fully defined in the

specification. Detecting VD-associated features and VPI is useful for the

specification, dentifying a subject at risk of VD or for monitoring

cerebrospinal dentifying a subject at risk of VD or for monitoring

the effect of therapy administered to a subject having VD. Nucleic acids

cenceding a VPI or inhibiting the function of a VPI are useful for the
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                            Screening, diagnosis or prognosis of vascular dementia (VD), useful for determining stage of VD and monitoring the effect of VD therapy, comprises analyzing body fluid by 2-dimensional electrophoresis for features correlated with VD.
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Pred. No. 1.7e+06;
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                                                                                                            Claim 6; Page 40; 151pp; English.
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24-NOV-2000; 2000GB-00028734.
28-NOV-2000; 2000US-00724391.
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The invention relates to screening, diagnosis or prognosis of Vascular Dementia (VD) in a subject comprising analysing body fluid from the subject by 2-dimensional (2-D) electrophoresis to generate a 2-D array of catures containing at least one chosen feature whose relative abundance correlates with the presence, absence, stage or severity of VD or predicts the onset or course of VD, especially detecting in a sample of cerebrospinal fluid (CSF) from the subject one of 223 vD-associated protein isoforms (VDIS) (ABB55801-ABB56255) as fully defined in the specification. Detecting VD-associated features and VPI is useful for the sereing, of VD, for identifying a subject at risk of VD or for monitoring the effect of therapy administered to a subject having VD. Nucleic acids encoding a VPI or inhibiting the function of a VPI are useful for the treatment of VD and for gene therapy
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Novel nucleic acid encoding a protein associated with bipolar affective disorder, which is used for diagnosis, prophylaxis and therapy of neuropsychiatric disorders, such as bipolar affective disorder. Human, depression associated protein isoform; tryptic digest peptide; DPI; cerebrospinal fluid; CSF; BAD; bipolar affective disorder; neuropsychiatric disorder; bipolar mood disorder; neuroleptic; maniac-depressive illness; schizoaffective disorder. Gaps . 0 Tyson KL; 1; Indels Score 19; DB 4; Length 7; Pred. No. 1.7e+06; Terrett JA, 1; Mismatches OXFO-) OXFORD GLYCOSCIENCES UK LTD. Rohlff C, AAU28602 standard; peptide; 7 AA. DPI tryptic digest peptide #199. 23-FEB-2001; 2001WO-GB000786. 24-FEB-2000; 2000GB-00004412. 08-DEC-2000; 2000GB-00030050. 12-DEC-2000; 2000US-0254830P. 61.3%; (first entry) Query Match
Best Local Similarity 60...
4; Conservative Parekh RB, WPI; 2001-570626/64. ۲ 7 | :||| TFELSR TLKLSR WO200162787-A1 Herath HMAC, Homo sapiens 03-JAN-2002 30-AUG-2001 AAU28602; a

The present invention relates to the identification of depression associated protein isoforms (DPIs), particularly the tryptic digest peptides of these proteins. Some of the DPIs (AAU28404-AAU28625) described are decreased in the cerebrospinal fluid (CSF) of BAD (bipolar affective disorder) subjects, whilst other DPIs (AAU28626-AAU28897) are increased in BAD subjects. Also described are peptide sequences identified from DPI-45 and DPI-213 and the nucleic acid sequence they are encoded by. The sequences of the invention are useful for clinical

Disclosure; Page 34; 153pp; English.

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New schizophrenia associated protein isoforms and encoding nucleic acid molecules, useful for treatment, diagnosis and prognosis of schizophrenia and screening for potential drugs for treatment and new drug targets.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The sequence represents a schizophrenia-associated protein isoform (SPI). These protein isoforms, e.g. SPI-206, SPI-238 and SPI-240 are detectable in cerebrospinal fluid, serum or plasma and are useful markers of schizophrenia. The sequences can be used for treatment and diagnosis of schizophrenia, screening, prognosis, monitoring the results of therapy, identifying patients most likely to respond to a particular therapy and identification of new targets for drug treatment. SPI DNA is useful as a nucleic acid probe to detect the presence of nucleic acids or SPIs
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screening, diagnosis, prognosis, therapy and prophylaxis of neuropsychiatric disorders e.g. BAD (also known as bipolar mood disorders, BP), maniac-depressive illnesses, attention deficit disorders, schizoaffective disorders, and unipolar affective disorders. The present sequence represents one of the DPI tryptic digest peptides of the present
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                                                                                                                                                                                                                                                                                                                                                                                                               Schizophrenia-Associated Protein Isoform (SPI) peptide #198.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 19; DB 4; Length 7; Pred. No. 1.7e+06; 1; Mismatches 1; Indels
                                                                                                                                                                              1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Terrett JA,
                                                                                                                                              61.3%; Score 19; DB 4; I larity 66.7%; Pred. No. 1.7e+06; Conservative 1; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Disclosure; Page 32; 148pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (OXFO-) OXFORD GLYCOSCIENCES UK LTD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Rohlff C,
                                                                                                                                                                                                                                                                                                                        AAU24969 standard; peptide; 7 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          61.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               23-FEB-2001; 2001WO-GB000792.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              24-FEB-2000; 2000GB-00004415.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           28-DEC-2000; 2000US-00750395.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Parekh RB,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2001-570624/64.
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TFELSR
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                                                                                                                      Sequence 7 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Herath HWAC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens.
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Schizophrenia; neuroleptic; diagnostic; neuropsychiatric disorder; neurological disorder; neuropathy.

Schizophrenia-associated isoform peptide #198.

(first entry)

24-OCT-2001

AAU15313;

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The invention relates to a preparation comprising an isolated Bipolar Affected Disorder (BAD)-Associated Protein Isoform (DPIS). The DPI's are used to screen, diagnose or prognose of BAD or unipolar depression, determine the stage or severity of BAD or unipolar depression, identify a cubject at risk of developing BAD or unipolar depression, or monitor the effect of therapy in a subject. They are also used to screen for or identify agents that interact with a DPI. These agents, antibodies against the DPIS, and nucleic acids encoding the DPIs are used to treat or prevent BAD or unipolar depression. Diseases that can be treated are attention deficient disorder. A schizoaffective disorder, a bipolar or a cutionion at disorder. The DPIS are used in proteomics. The DPIS are used in proteomics or proteomic approach of using DPIS for screening, diagnosis or proteomic approach of using DPIS for screening, diagnosis or proteomic approach of using DPIS for screening, diagnosis or proteomic analysis, such as not being able to obtain central nervous system (CNS) tissue from a living patient under normal circumstances. The Dresent sequence is a DIP decreased in the CSF (cerebro-spinal fluid) of such as a contract of the cont
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Preparation for diagnosing or treating bipolar affected disorder (BAD) unipolar depression, or for screening for modulators, comprises a BAD-
                                                                                                                                                                                                                                                                         Human; Bipolar Affective Disorder; BAD; Depression-Associated feature; DF; Depression-Associated protein isoform; DF; Cerebro-spinal fluid; CSF; antidepressant; antimanic; nootropic; tranquiliser; neuroleptic; attention deficient disorder; schizoaffective disorder;
                                                                                                                                                                                                                     Depression-Associated Protein isoform DPI-208.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (OXFO-) OXFORD GLYCOSCIENCES UK LID.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Rohlff C;
                                                   AAU26249 standard; peptide; 7 AA.
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12-DEC-2000; 2000US-0254830P.
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                                                                                                                                                                                                                                                                                                                                                                                       unipolar affective disorder
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          unipolar depression, or for associated protein isoform.
                                                                                                                                                                 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2001-582081/65.
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                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens
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                                                                                                          AAU26249;
RESULT 13
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Diagnosing and monitoring Schizophrenia by detecting the presence of Schizophrenia Associated Peatures and Schizophrenia Associated Protein Isoforms in samples of cerebrospinal fluid.

Claim 6; Page 32; 160pp; English

(OXFO-) OXFORD GLYCOSCIENCES UK LID.

23-FEB-2001; 2001WO-GB000783. 24-FEB-2000; 2000GB-00004415. 28-DEC-2000; 2000US-00750395.

WO200163293-A2.

30-AUG-2001,

Homo sapiens.

Rohlff C;

Herath HMAC, Parekh RB,

WPI; 2001-502868/55.

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The invention relates to methods and compositions for screening, diagnosis and prognosis of Schizophrenia. The method involves detecting the presence of Schizophrenia (SCH) Associated Features (SFS) and SCH Associated Protein Isoforms (SPIS) in samples, e.g. by electrophrensis, immunoassay or hybridisation assay, for diagnosing and monitoring SCH, studying the effectiveness of treatments and for identifying potential CC studying the relative abundance of a teast 1 chosen feature correlates with the presence or absence of SCH; and (2) monitoring the effect of therapy administered to a subject with SCH and the relative abundance of at least 1 chosen feature which correlates with the severity of SCH. The expression and activity of the SFs, SPIS and related molecules (e.g. crondary messengers) are studied to diagnose SCH, monitor the progress of the disorder and the effectiveness of treatment and as targets to of the paucity of detectable neuralgic defects distinguishes consumptive disorders such as SCH from neurological disorders, where meuropsychiatric disorders such as SCH from neurological disorders, where cc manifestations of anatomical and biochemical changes have been identified cellular and/or molecular causative defects and neuropsychiatric disorders treatment of cellular and/or molecular causative defects and neuropsychiatric clear of the invention and characterisation of cellular and/or molecular causative defects and neuropsychiatric disorders. Adulished recessary for improved treatment of neuropsychiatric disorders the mino acid sequences of schizophrenia-associated cisoforms used in the method of the invention
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Query Match

AAU15313 standard; peptide; 7 AA.

RESULT 14
AAU15313
ID AAU15.

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The invention relates to methods for the screening, diagnosis and prognosis of Alzheimer's disease. The methods involve the detection of Alzheimer's Disease-Associated Features (AFS) and Alzheimer's Disease-Associated Features (AFS) and Alzheimer's Disease-Associated Forcein Isoforms (APIS) in cerebrospinal fluid, serum or Expression Reference Protein Isoform (ERPI) in order to determine whether a patient is suffering from, or has a predisposition to, Alzheimer's Disease. The relative abundance of the AFS and APIS correlates with the produced from an API by proteolysis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Screening for Alzheimer's disease in a mammal, by making two-dimensional array of a feature whose relative abundance correlates with disease, and comparing with abundance of the feature in samples of healthy persons.
                                                                          Human, neuroprotective, nootropic, gene therapy, vaccine, Alzheimer's disease, Alzheimer's Disease-Associated Feature, AF; Alzheimer's Disease-Associated Protein Isoform; API; tryptic digest; Expression Reference Protein Isoform; ERPI; proteolysis.
                                                                                                                                                                                                                                                                                                                                                                                                   Friedman DL, Herath HMAC, Kimmel LH, Parekh RB;
Rohlff C, Silber BM, Stiger TR, Sunderland PT;
, White F, Williams SA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    61.3%; Score 19; DB 4; Length 7; 66.7%; Pred. No. 1.7e+06;
                                            Human API-125 tryptic digest peptide #8.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example; Page 34; 162pp; English.
                                                                                                                                                                                                                                                                                                      03-APR-2000; 2000US-0194504P.
28-NOV-2000; 2000US-0253647P.
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               (first entry)
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Townsend RR,
                                                                                                                                                                       Homo sapiens
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US-09-996-265-164
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Sequence 164, App
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Sequence 77, Appli
Sequence 170, App
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Sequence 460, App
Sequence 105, App
Sequence 124, App
Sequence 24, App1
Sequence 396, App
Sequence 1971, App
Sequence 1971, App
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96, Appî
131, App
396, App
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3542, Ap
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US-09-989-789-396
US-09-989-789-396
US-09-989-789-3503
US-09-989-789-3504
US-09-989-789-3544
US-09-986-288-35
US-09-996-288-35
US-09-996-288-35
US-09-996-288-35
US-09-996-288-131
US-09-996-288-35
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US-09-996-265-36
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US-09-996-265-36
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US-09-996-265-36
US-09-9994-3544
US-09-989-994-3543
US-09-989-994-3543
US-10-084-826-43
US-10-234-026-6
US-10-234-026-6
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ALIGNMENTS

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Sequence 164, Application US/0996288

Patent No. US2002017712641

Patent No. US2002017712641

APPLICANT: Young James

APPLICANT: Scott, Koenig

APPLICANT: Scott, Koenig

APPLICANT: Leslie, Johnson

TITLE OF INVENTION: and Treatment

FILE REFERENCE: 10271-047-999

CURRENT APPLICATION NUMBER: US/09/996,288

CURRENT FILING DATE: 2001-11-28

NUMBER OF SEQ ID NOS: 259

SOFTWARE: Patentin version 3.1
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Pred. No. 1.2e+06;
1; Mismatches 0; Indels
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80.0%;
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Sequence 164, Application US/09996265 Publication No. US20030091584A1 GENERAL INFORMATION:

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APPLICANT: White, Frost
APPLICANT: White, Frost
APPLICANT: White, Frost
APPLICANT: Williams, Stephen A.
TITLE OF INVENTION: Nucleic Acid Molecules, Polypeptides and
TITLE OF INVENTION: Uses Therefor, Including Diagnosis and Treatment of
TITLE OF INVENTION: Alzheimer's Disease
FILE REFREENCE: 257-1-001 No.
CURRENT APPLICATION NUMBER: US 60/194,504
PRIOR APPLICATION NUMBER: US 60/194,504
PRIOR APPLICATION NUMBER: US 60/253,647
PRIOR PILING DATE: 2000-11-28
NUMBER OF SEQ ID NOS: 492
SEQ ID NO 370
SEQ ID NO 370
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APPLICANT: Havaty, John
APPLICANT: Hary, John
APPLICANT: Briggman, Joseph
TITLE OF INVENTION: Detection and Treatment of Prostate Cancer
FILE REFREENCE: MTP-027
CURRENT APPLICATION NUMBER: US 60/250,284
PRIOR APPLICATION NUMBER: US 60/250,284
PRIOR FILING DATE: 2000-11-30
NUMBER OF SEQ ID NOS: 14
SOFTWARE: Patentin version 3.0
SEQ ID NO 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 370, Application US/09826290
Patent No. US20020164668A1
GENERAL INFORMATION:
APPLICANT: Durham, L.Kathryn
APPLICANT: Friedman, David L.
APPLICANT: Herath, Herath Mudiyanselage Athula Chandrasiri
APPLICANT: Rimmel, Lida H.
APPLICANT: Rimmel, Lida H.
APPLICANT: Rimmel, Raiseh Bhikhu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 19; DB 9; Length 7; Pred. No. 1.2e+06; 1; Mismatches 1; Indels
                                                                                            1; Indels
                                                         Length 7;
                                                       Score 19; DB 9; I
Pred. No. 1.2e+06;
1; Mismatches 1;
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Rohlff, Christian
Silber, B. Michael
Stiger, Thomas R.
Sunderland, P. Trey
Townsend, Robert Reid
                                                                                                                                                                                                                                                               ; sequence 7, Application US/09998909
; Patent No. US20020164664A1
; GENERAL INFORMATION:
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                                                            61.3%;
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Best Local Similarity 66.7
Matches 4; Conservative
                                                          Query Match
Best Local Similarity 66.7
Matches 4; Conservative
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ORGANISM: Homo sapiens
   ; ORGANISM: Homo sapiens
US-09-791-378-198
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US-09-826-290-370
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US-09-998-909-7
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APPLICANT:
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Sublication No. US20040018200A1

GENERAL INFORMATION:
GENERAL INFORMATION:
GENERAL INFORMATION:
TAPPLICANT: Allan, Christian
APPLICANT: Chang, Stephen
TITLE OF INVENTION: STABLILIZED ANTI-RESPIRATORY SYNCYTIAL VIRUS (RSV) ANTIBODY FORMUL
FILE REFERENCE: 10271-071-999
CURRENT APPLICATION NUMBER: US/10/461,863
CURRENT FILING DATE: 2003-06-13
PRIOR APPLICATION NUMBER: 60/388,920
PRIOR FILING DATE: 2002-06-14
NUMBER OF SEQ ID NOS: 209
SOFTWARE: Patentin version 3.1
APPLICANT: Scott, Koenig
APPLICANT: Leslie, Johnson
TITLE OF INVENTION: Methods of Adminstering/Dosing Anti-RSV Antibodies for Prophylaxi
TITLE OF INVENTION: and Treatment
FILE REPERENCE: 10271-048-999
CURRENT APPLICATION NUMBER: US/09/996,265
CURRENT PILING DATE: 2001-11-28
NUMBER OF SEQ ID NOS: 259
SOFTWARE: Patentin version 3.1
SEQ ID NO 164
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                                                                                                                                                                                                                                                                                           Score 20; DB 10; Length 7; Pred. No. 1.2e+06; 1; Mismatches 0; Indels
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80.0%;
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Best Local Similarity 80.00
Local 4; Conservative
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US-10-461-863-164
                                                                                                                                                                                                                          TYPE: PRT
CORGANISM: Homo sapiens
US-09-996-265-164
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Best Local Similarity
Matches 4; Conserv
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US-09-791-378-198
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US-10-461-863-164
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SCHEMACH INVESTMENT.

SCHEMACH INVESTMENT.

PAPLICANT: Herath, Herath Mudiyanselage Athula Chandrasiri,

APPLICANT: Pareth, Rajesh Bhikhu

APPLICANT: Rohlff, Christian

APPLICANT: Rohlff, Christian

APPLICANT: Rohlff, Christian

APPLICANT: Rohlff, Christian

APPLICANT: Trerett, Jonathan Alexander

TITLE OF INVENTION: Forteins, Genes and Their Use for

TITLE OF INVENTION: Diagnosis and Treatment of Bipolar Affective Disorder (BAD)

FILE REFERENCE: 2543-1-01 N2

CURRENT APPLICATION NUMBER: US/09/791,389

CURRENT APPLICATION NUMBER: GB 0004412.3

PRIOR APPLICATION NUMBER: GB 0004412.3

PRIOR APPLICATION NUMBER: US 60/254,830

PRIOR APPLICATION NUMBER: US 60/254,830

PRIOR APPLICATION NUMBER: US 60/254,830

NUMBER OF SEQ ID NOS: 308

SOFTWARE: FastSEQ for Windows Version 4.0

LENGTH: NOME
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APPLICANT: Young, James
APPLICANT: Scott, Koenig
APPLICANT: Scott, Koenig
APPLICANT: Leslie, Johnson
TITLE OF INVENTION: Methods of Adminstering/Dosing Anti-RSV Antibodies for Prophylax:
TITLE OF INVENTION: and Treatment
FILE REFERENCE: 10271-048-999
CURRENT APPLICATION NUMBER: US/09/996,265
CURRENT APPLICATION NUMBER: 2001-11-28
NUMBER OF SEQ ID NOS: 259
SOFTWARE: Patentin version 3.1
LENGTH: 7
LENGTH: 7
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                     66.7%; Pred. No. 1.2e+06;
tive 1; Mismatches 1; Indels
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80.0%; Pred. No. 1.2e+06;
Live 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                    Sequence 145, Application US/09791389; Publication No. US20030032773A1; GENERAL INFORMATION:
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Publication No. US20030091584A1
GENERAL INFORMATION:
                  Best Local Similarity 66.7 Matches 4; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 61.3
Best Local Similarity 66.7
Matches 4; Conservative
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ORGANISM: Homo sapiens
US-09-996-265-135
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Best Local Similarity
Matches 4; Conserve
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TFELSR
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Patent No. US20020177126A1

Patent No. US20020177126A1

Patent No. US20020177126A1

REWERAL INPORMATION:

APPLICANT: Scott, Koenig

APPLICANT: Leslie, Johnson

TITLE OF INVENTION: Methods of Adminstering/Dosing Anti-RSV Antibodies for Prophylaxi

TITLE OF INVENTION: Morbers US/09/996,288

CURRENT APPLICATION NUMBER: US/09/996,288

CURRENT APPLICATION NUMBER: 2001-11-28

NUMBER OF SEQ ID NOS: 259

SEQ ID NO 135

LENGTH: 7
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i Sequence 145, Application US/09791393

sequence 145, Application Wo. US20030032200A1

sequence 145, Application No. US20030032200A1

sequence 145, Application No. US20030032200A1

sequence 145, Application No. US20030032200A1

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Pred. No. 1.2e+06;
1; Mismatches 1; Indels
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                                                                                                                                                61.3%;
                                                                                                                                       Query Match
Best Local Similarity 66.7
Matches 4; Conservative
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ORGANISM: Homo sapiens
                        TYPE: PRT
ORGANISM: homo sapien
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Best Local Similarity
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TFELSR 7
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                                                                                      US-09-826-290-370
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LENGTH: 7
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Sequence 135, Application US/10461863 Publication No. US20040018200A1 GENERAL INFORMATION:
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                                                                                                                                                                                                           APPLICANT: Parekh, Rajesh
TITLE OF INVENTION: PROTEINS, GENES AND THEIR USE FOR DIAGNOSIS AND TREATMENT OF
TITLE OF INVENTION: SCHIZOPHRENIA
FILE REPERRANCE: 9195-060-999
CURRING APPLICATION NUMBER: US/09/791,377
CURRING PAPLICATION NUMBER: 09/750,395
PRIOR FILING DATE: 2000-12-28
NUMBER OF SEQ ID NOS: 677
SOFTWARE: PATENTIN Version 3.0
SOFTWARE: Patentin version 3.0
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Sequence 13, Application US/10044034

Publication No. US20020169264A1

GENERAL INFORMATION:
APPLICANT: JACKSON, DAVID C.
APPLICANT: GONERIEN-SIMBSON, NEIL M.
APPLICANT: BENOW, LORENA B.
APPLICANT: BENOW, LORENA B.
APPLICANT: BENOW, LORENA B.
APPLICANT: BENOW, LOYELYN R.
APPLICANT: GOOD, MICHAEL F.
TITLE OF INVENTYON: POLYMERS INCORPORTING PEPTIDES
FILE REFERENCE: FBRC:006
CURRENT FILING DATE: 2002-01-11
PRIOR PILICATION NUMBER: US/10/044,034
CURRENT FILING DATE: 1997-02-11

NUMBER OF SEQ ID NOS: 28

SOFTWARE: Patentin Ver. 2.1

SEQ ID NO 13

LENGTH: 7
                                                                                                                                            Sequence 198, Application US/09791377
Publication No. US20040110938A1
GENERAL INFORMATION:
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Best Local Similarity 80.03
Matches 4; Conservative
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Best Local Similarity 66.7
Matches 4; Conservative
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; ORGANISM: Homo sapiens
US-09-791-377-198
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2 TFELSR 7
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US-10-044-034-13
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APPLICANT: Oliver, Cynthia
APPLICANT: Oliver, Cynthia
APPLICANT: Allan, Christian
APPLICANT: Allan, Christian
APPLICANT: Chang, Stephen
TITLE OF INVENTION: STABILIZED ANTI-RESPIRATORY SYNCYTIAL VIRUS (RSV) ANTIBODY FORMUI
FILE REFERENCE: 10271-071-999
CURRENT APPLICATION NUMBER: US/10/461,863
CURRENT FILING DATE: 2003-06-13
PRIOR APPLICATION NUMBER: 60/388,920
PRIOR FILING DATE: 2002-06-14
NUMBER OF SEQ ID NOS: 209
SOGTWARE: Pacentin version 3.1
SEQ ID NO 135
LENGTH: 7
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APPLICANT: WHITE, W. FROST
APPLICANT: WHITE, W. FROST
APPLICANT: WILLIAMS, STEPHEN A.
TITLE OF INVENTION: INCLUDING DIAGNOSIS AND TREATMENT OF ALZHEIMER'S DISEAFILE REFERENCE: FOA-002.01
CURRENT APPLICATION NUMBER: US/10/264,309
CURRENT FILING DATE: 2002-10-03
FRIOR FILING DATE: 2001-10-03
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: DURLAM, I. KATHRYN
APPLICANT: DURLAM, I. KATHRYN
APPLICANT: HERATH, HERATH
APPLICANT: KIEDMAN, LIDA H.
APPLICANT: KIMMEL, LIDA H.
APPLICANT: ROHLFF, RAJESH B.
APPLICANT: SOTHER, BALISTAM
APPLICANT: STHER, B. MICHAEL
APPLICANT: STHER, B. MICHAEL
APPLICANT: STHER, B. MICHAEL
APPLICANT: STORER, POLLY D.
APPLICANT: STORER, THOMAS R.
APPLICANT: STORER, THOMAS R.
APPLICANT: STORER, THOMAS R.
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SOFTWARE: Patentin Version 2.1
SEQ ID NO 460
LENGTH: 7
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Best Local Similarity 66.7
Matches 4; Conservative
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Best Local Similarity 80.0
Matches 4; Conservative
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US-10-264-309-460
                                                                                                                                                                                                                                                                                                            TYPE: PRT
CRGANISM: Homo sapiens
US-10-461-863-135
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2 TFELSR 7
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2 TLKLA 6
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RESULT 15
US-10-601-100-105
i Sequence 105, Application US/10601100
i Publication No. US2004007261A1
i SERVERAL INFORMATION:
I TILLE OF INVERMITON: Wethod for the Diagnosis and Differential Diagnosis of
I TILLE OF INVERTION: Neurological Diseases
I TILLE OF INVERTION NUMBER: US/10/601,100
CURRENT FILLING DATE: 2002-06-20
I FRIOR APPLICATION NUMBER: BF 02447121.1
FRIOR PILLING DATE: 2002-06-21
I FRIOR PILLING DATE: 2002-06-21
I FRIOR PILLING DATE: 2002-06-31
I SEQ ID NOS: 113
I SOFTWARE: PATENTIN VOICE
I SEQ ID NOS: 113
I SOFTWARE: PATENTIN VOICE
I TYPE: PRT
I TYPE
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Search completed: November 4, 2004, 01:43:17 Job time : 69.6667 secs

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DESCRIPTION: polypeptide
ORIGINAL SOURCE:
ORGANISM: Homo sapiens (melanoma patient immu-
ORGANISM: nized with autologous tumor cells)
INDIVIDUAL ISOLATE: peripheral blood lymphocytes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REFERENCE/DOCKET NUMBER: OCR.
TELECOMUNICATION INFORMATION:
TELEPACNE: 203-773-9544
TELEFAK: 203-773-1183
INFORMATION FOR SEQ ID NO: 25:
SEQUENCE CHARACTERISTICS:
LENGTH: 113 residues
TYPE: amino acid
STRANDEDNESS: single
TOPPLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 25, Appl
Sequence 45, Appl
Sequence 26, Appl
Sequence 116, Appl
Sequence 116, Appl
Sequence 116, Appl
Sequence 116, Appl
Sequence 56, Appl
Sequence 56, Appli
Sequence 576, Appli
Sequence 5118, Appli
Sequence 5418, Appli
Sequence 5418, Appli
Sequence 44365, Appli
                                                                          4, 2004, 00:42:19; Search time 16.6667 Seconds (without alignments) 27.854 Million cell updates/sec
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 5.1.6
Compugen Ltd.
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/cgn2_6/ptodata/1/iaa/6A_COMB.pep:*
/cgn2_6/ptodata/1/iaa/6B_COMB.pep:*
/cgn2_6/ptodata/1/iaa/PcTUS_COMB.pep:*
/cgn2_6/ptodata/1/iaa/PcTUS_COMB.pep:*
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US-09-081-385-148

US-08-482-82-45

US-08-482-389-45

US-08-487-113D-45

US-08-473-503-45

US-08-473-503-45

US-08-772-047-45

US-08-772-047-26

US-09-772-047-26

US-09-772-047-26

US-09-772-047-26

US-09-134-0017-45

US-09-138-452A-36

US-09-252-991A-17454

US-09-252-991A-17454

US-09-252-991A-17454

US-09-248-614-533

US-09-543-61A-5317

US-09-243-61A-5317

US-09-243-61A-5317

US-09-134-001C-5618

US-09-134-001C-5618

US-09-134-01C-5618

US-09-38-756A-22198

US-09-134-01C-5618

US-09-134-43463

US-09-270-767-445453

US-09-270-767-445365

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GenCore version
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Maximum Match 100%
Listing first 45 summaries
                                               OM protein - protein search, using sw model
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| Sequence 33, Appl Sequence 71, Appl Sequence 71, Appl Sequence 33, Appl Sequence 33, Appl Sequence 80, Appl Sequence 114, Appl Sequence 114, Appl Sequence 114, Appl Sequence 114, Appl Sequence 154, Appl Sequence 154, Appl Sequence 155, Appl | | Anti- |
|---|------------|--|
| 1 US-08-477-877B-33 1 US-07-977-696C-71 1 US-08-129-930B-71 2 US-08-472-281A-33 3 US-08-477-989B-3 3 US-08-976-288A-71 4 US-09-563-222C-114 4 US-09-563-222C-114 4 US-09-51-976-6115 4 US-09-270-767-5438 1 US-08-497-312-19 4 US-09-254-180C-155 4 US-09-254-180C-155 4 US-09-254-180C-155 4 US-09-254-180C-155 4 US-09-254-180C-155 | ALIGNMENTS | uns/08983607 Cai Gai Human Anti-Tumor Monoclonal bodies 5: ent of Molecular Biophysics Chemistry, Yale University Y Avenue M: M: M: M: M: M: M: M: M: M |
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| 28 330 331 331 331 334 444 440 441 441 441 441 441 443 443 443 443 443 | | RESULT 1 US-08-983-607-25 Sequence 25, Applicat Patent No. 6140470N; GENERAL INFORMATION: APPLICANT: Alan G TITLE OF INVENTION INVERSE OF SEQUENCE CORRESPONDENCE ADD ADDRESSEE: Depa ADDRESSEE: Depa ADDRESSEE: Depa ADDRESSEE: Depa ADDRESSEE: Depa ADDRESSEE: Depa ADDRESSEE: Be CITY: New Haven STREET: 266 Whi CITY: New Haven CITY: New Haven COUNTRY: United STREET: 266 Whi COUNTRY: United STREET: BE COMPUTER: BE COMPUTER: BE COMPUTER: BE COMPUTER: BE COMPUTER: BE COMPUTER: Appl CLASSIFICATION: PRIOR APPLICATION APPLICATION NUMBER FILING DATE: DU CLASSIFICATION NUMBER FILING DATE: DU CLASSIFICATION NUMBER FILING DATE: DU CLASSIFICATION |

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US-08-482-882-45

Sequence 45, Application US/08482882

Sequence 45, Application US/08482882

Sequence 45, Application US/08482882

Sequence 45, Application US/08482882

GENERAL INFORMATION:

APPLICANT: Gallatin, W. Michael

APPLICANT: Vazeux, Rosemay

APPLICANT: Vazeux, Rosemay

APPLICANT: Gallatin, W. Michael

APPLICANT: GALDESS:

CORRESPONDENCE ADDRESS:

ADDRESSE:

ADDRESSE:

ADDRESSE:

STREET: G300 Sears Tower, 233 S. Wacker Drive
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87.1%; Score 27; DB 1; Le
Best Local Similarity 100.0%; Pred. No. 1e+02;
Matches 6; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ZIP: 60606
COMPUTER REALABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   : 127 amino acids
amino acid
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                                       358 LTLRLSR 364
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STREET: 6300 Sear CITY: Chicago STATE: Illinois COUNTRY: USA ZIP: 60606
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           92 TLKLSR 97
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         1 LTLKLSR 7
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Patent No. 6593456

GENERAL INFORMATION:
APPLICANT: Gatanaga, T.
APPLICANT: Gatanaga, T.
TITLE OF INVENTION: Factors Altering Tumor Necrosis
TITLE OF INVENTION: Factor Receptor Releasing Enzyme Activity, and Methods
TITLE OF INVENTION: of Use Thereof
NUMBER OF SEQUENCES: 154

CORRESPONDENCE ADDRESS:
ADDRESSEE: MORRISON & FOERSTER
STREET: 755 PAGE MILL ROAD
CITY: Palo Alto
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
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IMMEDIATE SOURCE:
LIBRARY: DM414 scFv antibodies obtained from
LIBRARY: FUSES fusion phage construct
CLONE: D33
FEATURE:
NAME/KEY: light chain
CHER INFORMATION: Xaa at position 47 is His or Gln
CTHER INFORMATION: Gly and Xaa at position 95 is His or Gln
US-08-983-607-25
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                                                                                                                                                                                                                                                                                                             Score 29; DB 3; Length 113;
Pred. No. 33;
                                                                                                                                                                                                                                                                                                                                                                          0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows
OPERALE: FastSEQ for Windows Version 2.0b
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/081,385
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/964,747
FILING DATE: 05-NOV-1997
APPLICATION NUMBER: 60/030,761
FILING DATE: 06-NOV-1996
ATTORNEY/AGENT INFORMATION:
NAME: Wu, Frank
REGISTRATION NUMBER: 22000-20577.21
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-813-5600
                                                                                                                                                                                                                                                                                                                                                                             1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEX: 706141
INFORMATION FOR SEQ ID NO: 148:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                          93.5%;
85.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LENGTH: 474 amino acids TYPE: amino acid
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FRAGMENT TYPE: internal
US-09-081-385-148
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           650-494-0792
                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity 85.7
Matches 6; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304-1018
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ||||:||
76 LTLKISR 82
                                                                                                                                                                                                                                                                                                                                                                                                                                          1 LTLKLSR 7
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                                                                                                 ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 6300 Sears Tower, 233 South Wacker Drive
CITY: Chicago
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 87.1%; Score 27; DB 2; Length 127;
100.0%; Pred. No. 1e+02;
iive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 45, Application US/08473503
Patent No. 5869562
GENERAL INFORMATION:
APPLICANT: Gallatin, W. Michael
APPLICANT: Vazeux, Rosemay
TITLE OF INVERTION: ICAM-Related Materials and Methods:
NUMBER OF SEQUENCES: 116
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: ALIGNO Sears Tower, 233 S. Wacker Drive
                                                                                                                                                                                                                                                   COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/487,113D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CLASSIFICATION: 424

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/286,754
FILING DATE: 05-AUG-1994
APPLICATION NUMBER: US 08/102,852
FILING DATE: 05-AUG-1993
APPLICATION NUMBER: US 08/009,266
FILING DATE: 22-JAN-1993
PRIOR APPLICATION NUMBER: US 07/894,061
FILING DATE: 05-UN-1993
PRIOR APPLICATION NUMBER: US 07/894,061
FILING DATE: 26-MAY-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/894,661
FILING DATE: 26-MAY-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/899,724
FILING DATE: 26-MAY-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/827,689
FILING DATE: 27-DAN-1992
ATTORNEY/AGENT INFORMATION:
NAME: NO. 5837822and, Greta E.
REGISTRATION NUMBER: 35,302
REFERENCE, NOTWERFER: 35,302
                                                                                                                                                                          STATE: Illinois
COUNTRY: United States of America
ZIP: 60606-6402
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REGISTRATION NUMBER: 35,302
REFERENCE/DOCKET NUMBER: 32744
TELECOMMUNICATION INFORMATION:
TELEPHONE: (312) 474-6300
TELERA: (312) 474-6448
TELERA: 25-3856
INFORMATION FOR SEQ ID NO: 45;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       : 127 amino acids
amino acid
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                                                                           CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; MOLECULE TYPE: protein US-08-487-113D-45
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STREET: 6300
CITY: Chicago
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Best Local Similarity
Matches 6; Conserv
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US-08-473-503-45
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US-08-483-389-45

| Sequence 45, Application US/08483389 |
| Sequence 45, Application US/08483389 |
| Sequence 45, Application US/08483389 |
| Sequence 46, Application US/08483389 |
| GENERAL INFORMATION: Gallatin, W. Michael APPLICANT: Gallatin, W. Michael APPLICANT: Gallatin, W. Michael APPLICANT: Use of INVENTION: ICAM-RELATED PROTEIN NUMBER OF SEQUENCES: 118 |
| CORRESPONDENCE ADDRESS: 118 |
| CORRESPONDENCE ADDRESS: 118 |
| CORRESPONDENCE ADDRESSE: Marshall, O'Toole, Gerstein, Murray & BOJ STREET: 111inois COUNTRY: United States of America STATE: Illinois COMPUTER: IDEM PC COMPATIBLE COMM: MEDIUM TYPE: Ploppy disk COMPUTER: IDEM PC COMPATIBLE OPERALITY GYSTEM: PC-DOS/MS-DOS SOURCEATING SYSTEM: PC-DOS/MS-DOS SOURCEATING SYSTEM: PC-DOS/MS-DOS SOURCEATING SYSTEM: O'-UTM-1995 |
| FILING DATE: O'-UTM-1995 |
| PRIOR APPLICATION DATA: APPLICATION NUMBER: US O'/894,061 |
| FILING DATE: 22-AM-1993 |
| APPLICATION NUMBER: US O'-UM-1995 |
| PRIOR APPLICATION NUMBER: US O'-WAS APPLICATION NUMBER: P-41,337 |
| REGISTRATION NUMBER: P-41,337 |
| REGISTRATION UMBER: US O'-WAS APPLICATION UMBER: US O'-WAS APPLICATION UMBER: US O'-WAS APPLICATION UMBER: US O'-WAS APPLICATION U
                                                                                                                                                                                                                                                                                                          & Borun
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              87.1%; Score 27; DB 2; Length 127; 100.0%; Pred. No. 1e+02; tive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REFERENCE/DOCKET NUMBER: 27866/32760
TELECOMMUTCATION INFORMATION:
TELEPHONE: (312) 474-6300
TELEFAX: (312) 474-6448
INFORMATION FOR SEQ ID NO: 45:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 : 127 amino acids
amino acid
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity
Matches 6; Conserv
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TOPOLOGY:
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RESULT 8
US-8-720-420A-45
US-88-720-420A-45
US-88-720-420A-45
Sequence 45, Application US/08720420A
Patent No. 589843
Father No. 589843
FILEARIEM GAILATION: Morelated Materials and Methods
FITLE OF INVENTION: ICPA-Related Materials and Methods
FITLE OF INVENTION: ICPA-Related Materials and Methods
NUMBER OF SEGUENCES: 120
CORRESPONDENCE ADDRESS:
ADDRESSE: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: G300 Sears Tower, 233 South Wacker Drive
CITY: Chicago
STARE: Material States of America
COUNTRY: United States of America
COUNTRY: United States of America
COUNTRY: United States of America
COUNTRY: BM PC compatible
COMPUTER: IBM PC compatible
COMPUTER: BM PC compatible
COMPUTER: BATHORY OF SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENTIN Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
FILING DATE:
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              87.1%; Score 27; DB 2; Length 127; 100.0%; Pred. No. 1e+02; ive 0; Mismatches 0; Indels
    PatentIn Release #1.0, Version #1.25
SOFTWARE: Patentin Release #1.0, Versi
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/483,932
FILING DATE: 07-UTN-1995
CLASSIPICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/286,754
FILING DATE: 05-AUG-1994
APPLICATION NUMBER: US 08/102,852
FILING DATE: 05-AUG-1993
PRIOR APPLICATION DATA:
APPLICATION DATA:
APPLICATION NUMBER: US 07/894,061
FILING DATE: 22-JAN-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/894,061
FILING DATE: 05-UN-1992
PRIOR APPLICATION NUMBER: US 07/899,724
FILING DATE: 05-UN-1992
PRIOR APPLICATION NUMBER: US 07/889,724
FILING DATE: 26-MAY-1992
APPLICATION NUMBER: US 07/827,689
FILING DATE: 27-JAN-1992
APPLICATION NUMBER: 35,302
FILING DATE: 27-JAN-1992
APPORNEY/AGENT INFORMATION:
NAME: No. 5880268and, Greta E.
REGESTRATION NUMBER: 35,302
FELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION NUMBER: 3178
TELECOMMUNICATION NUMBER: 32,000
TELEEX: 25-3856
INFORMATION POR SEQ ID NO: 45:
SEQUENCE CHARACTERISTICS:
LENGTH: 127 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 87.15
Best Local Similarity 100.0
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TOPOLOGY: linear;

MOLECULE TYPE: protein US-08-483-932-45
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Patent No. 5880268
GENERAL INFORMATION:
APPLICANT: Gallatin, W. Michael
APPLICANT: Vazeux, Rosemay
ATTIE OF INVENTION: ICAM-Related Materials and Methods
NUMBER OF SEQUENCES: 116
CORRESPONDENCE ADDRESS:
ADDRESSEE: G300 Sears Tower, 233 S. Wacker Drive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 27; DB 2; Length 127;
Pred. No. 1e+02;
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                                                               ZIP: 60606

COMPUTER: COAD

ZIP: 60606

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IEM PC compatible
COMPUTER: Floppy disk
COMPUTER: IEM PC compatible
COMPUTER: IEM PC CATCHING DATA:
APPLICATION NUMBER: US/08/473,503
FLING DATE: 07-UN-1995
FLING DATE: 05-AUG-1994
APPLICATION NUMBER: US 08/102,852
FLING DATE: 05-AUG-1994
APPLICATION NUMBER: US 08/009,266
FLILING DATE: 05-AUG-1993
PRICR APPLICATION NUMBER: US 07/894,061
FLILING DATE: 05-AUM-1992
APPLICATION NUMBER: US 07/899,724
FLILING DATE: 26-MAY-1992
APPLICATION NUMBER: US 07/889,724
FLILING DATE: 26-MAY-1992
APPLICATION NUMBER: US 07/889,724
FLILING DATE: 27-JAN-1992
APPLICATION NUMBER: US 07/827,689
FLILING DATE: 37-JAN-1992
APPLICATION NUMBER: US 07/827,689
FLILING DATE: 37-JAN-1992
APPLICATION NUMBER: 35-302
REGISTRATION NUMBER: 35-303
TELEPHONE: (312) 474-6300
TELEPHONE: (312) 474-6300
TELEPHONE: SEQUENCE CHARACTERISTICS:
SEQUENCE CHARACTERISTICS:
SEQUENCE CHARACTERISTICS:
SEQUENCE CHARACTERISTICS:
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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amino acid
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Best Local Similarity 100.
Matches 6; Conservative
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CITY: Chicago
STATE: Illinois
COUNTRY: USA
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| Patent No. 6100383
| CANDELL INFORMATION: | CANDELL INFORMATION: | CANDELL OF INVESTION: | APPLICANT: VAZEUX, ROSEMAY | TITLE OF INVESTION: | I.6 OF INVESTICATION: | I.6 OF INVEST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            87.1%; Score 27; DB 3; Length 127; 100.0%; Pred. No. 1e+02; 0; Mismatches 0; Indels
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APPLICATION NUMBER: US/08/475,680
FLING DATE: 07-JUN-1995
CLASSIFICATION NUMBER: 08/286,754
APPLICATION NUMBER: 08-286,754
APPLICATION NUMBER: 08-286,754
APPLICATION NUMBER: US 08/102,852
FLING DATE: 05-AUG-1993
APPLICATION NUMBER: US 08/102,852
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/109,266
PRIOR APPLICATION DATA:
                                                                FILING DATE: 05-AUG-1993
PRIOR APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
PLING DATE: 22-JAN.1993
PRIOR APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
FILING DATE: 05-JUN.1992
PRIOR APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
FILING DATE: 25-MAY-1992
APPLICATION NUMBER: 30 7/827,689
FILING DATE: 27-JAN-1992
ATTORNEY/AGENT INPORMATION:
REFERENCE/DOCKET NUMBER: 35,302
REFERENCE/DOCKET NUMBER: 3178
TELECOMMUNICATION INPORMATION:
TELEPHONE: (312) 474-6300
TELEPRAX: 25-3856
INPORMATION POR SEQ ID NO: 45:
SEQUENCE CHARACTERESTICS:
                                               US 08/102,852
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amino acid
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Best Local Similarity 100.
Matches 6; Conservative
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                                               APPLICATION NUMBER:
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MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      linear
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US-08-475-680-45
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Pred. No. 1e+02;
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APPLICANT: Gallatin, W. Michael
APPLICANT: Gallatin, W. Michael
APPLICANT: Vazeux, Rosemay
TITLE OF INVENTION: ICAM-Related Materials and Methods
NUMBER OF SEQUENCES: 1CAM-Related Materials and Methods
CORRESPONDENCE ADDRESS:
ADDRESSE: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 6300 Sears Tower, 233 S. Wacker Drive
CITY: Chicaes
CONTRESSE: Illinois
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0; Indels
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CONNTRY: USA
ZIP: 60606
COMPUTER: READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/714,017
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            87.1%; Scor.
100.0%; Pred. No.
                              FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/286,754
FILING DATE: 05-AUG-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/102,852
FILING DATE: 05-AUG-1993
PRIOR APPLICATION DATA:
FILING DATE: 22-JAN-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/894,061
FILING DATE: 05-JUN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/894,724
FILING DATE: 05-JUN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/899,724
FILING DATE: 35-MAY-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/827,689
FILING DATE: 37-JAN-1992
ATTILING DATE: 38,659
REFERENCE/DOCKET NUMBER: 38,659
REFERENCE/DO
APPLICATION NUMBER: US 08/487,113
FILING DATE: 07-JUN-1995
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PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/286,754
FILING DATE:
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Best Local Similarity 100.
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TOPOLOGY: linear
MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            amino acid
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RESULT 13
US-09-134-001C-3710

Sequence 310, Application US/09134001C

Sequence 310, Application US/09134001C

Setent No. 6380370

GENERAL INFORMATION:
TITLE OF INVENTION: WOLLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS

TITLE OF INVENTION: WOLLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS

TITLE OF INVENTION: WOLLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS

TITLE OF INVENTION: WORDER: US/09/134,001C

CURRENT FILING DATE: 1998-08-13

PRIOR PELLING DATE: 1998-08-13

PRIOR PLLING DATE: 1997-11-08

PRIOR FILING DATE: 1997-11-08

RESO ID NO 3710

LENGTH: 141
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GENERAL INFORMATION:
GENERAL INFORMATION:
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GENERAL INFORMATION:
GENERAL INFORMATION:
GENERAL INFORMATION:
GENERAL INFORMATION:
GENERAL OF INVENTION:
GENERAL APPLICATION NUMBER:
GURRENT PAPLICATION NUMBER:
GURRENT FILING DATE:
US 60/074,788
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0
       APPLICANT: MUBLIER, EILLEN E.
APPLICANT: MUBLIER, EILLEN E.
APPLICANT: GILMAN, STEVEN G.
APPLICANT: GILMAN, STEVEN C.
APPLICANT: GORVALAN, JOSE R.
TITLE OF INVENTION: HUMAN MONOCLONAL ANTIBODIES TO CTLA-4
FILE REFRENCE: ABX-PF1
CURRENT APPLICATION NUMBER: U6/99/472,087
CURRENT APPLICATION NUMBER: 06/9/472,087
CURRENT FILING DATE: 1999-12-23
PRIOR FILING DATE: 1998-12-23
NUMBER: OF SEQ ID NOS: 147
SOFTWARE: PATCHIN Ver. 2.1
SEQ ID NO 116
LENUTH: 133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 87.1%; Score 27; DB 3; Length 141; 71.4%; Pred. No. 1.18+02; rive 2; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match 87.1%; Score 27; DB 4; Length 133; Best Local Similarity 100.0%; Pred. No. 1.1e+02; Matches 6; Conservative 0; Mismatches 0; Indels
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Patent No. 6551795
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   , ORGANISM: Staphylococcus epidermidis
US-09-134-001C-3710
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Best Local Similarity 71.4°
دم 5، Conservative
                                                                                                                                                                                                                                                                                                                                                                                      TYPE: PRT
CORGANISM: Homo sapiens
US-09-472-087-116
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53 LTMKISR 59
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US-09-252-991A-17454
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j Sequence 26, Application US/09472087

patent No. 6682736

j GENERAL INFORMATION:

APPLICANT: HANSON, DOUGLAS C.

APPLICANT: HANKE, JEFERRY H.

APPLICANT: HANKE, JEFERRY H.

APPLICANT: GILMAN, STEWRY C.

APPLICANT: GILMAN, GEOFFREY H.

APPLICANT: CORVALAN, JOSE R.

TITLE OF INVENTION: HUMAN MONOCLONAL ANTIBODIES TO CTLA-4

FILE REFERENCE: ABX-FF1

CURRENT APPLICATION NUMBER: US/09/472,087

FILE REFERENCE: 1999-12-23

PRIOR FILING DATE: 1998-12-23

FRIOR FILING DATE: 1998-12-23

NUMBER OF SEQ ID NOS: 147

SEQ ID NO 26

LENGTH: 133

LENGTH: 133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           87.1%; Score 27; DB 4; Length 133; 100.0%; Pred. No. 1.1e+02; ive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   87.1%; Score 27; DB 3; Length 127; 100.0%; Pred. No. 1e+02; attive 0; Mismatches 0; Indels
APPLICATION NUMBER: US 07/894,061
FILING DATE: 05-UN-1992
PRIOR APPLICATION DATE:
APPLICATION NUMBER: US 07/889,724
FILING DATE: 26-MAY-1992
FILING DATE: 27-MAY-1992
APPLICATION NUMBER: US 07/827,689
FILING DATE: 27-JAM-1992
ATTORNEY/AGENT INFORWATION:
NAME: No. 6100383and, Greta E.
RECISTRATION NUMBER: 35,302
RECISTRATION NUMBER: 32178
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; Sequence 116, Application US/09472087; Patent No. 6682736; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                     TELEPHONE: (312) 474-6300
TELETAX: (312) 474-0448
TELETAX: 25-3856
INFORMATION FOR SEQ ID NO: 45:
SEQUENCE CHARACTERISTICS:
LENGTH: 127 amino acids
TYPE: amino acids
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity 100.
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     , MOLECULE TYPE: protein US-08-475-680-45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity
Matches 6; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         63 TLKLSR 68
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              92 TLKLSR 97
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2 TLKLSR 7
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US-09-472-087-116
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-09-472-087-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
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RESULT 15
US-09-198-452A-366
; Sequence 366, Application US/09198452A
; Sequence 366, Application US/09198452A
; GENERAL INFORMATION:
; APPLICANT: Griffais, R.
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
; TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, preve
; TITLE OF INVENTION: and treatment of infection
                                                                                                                                                                                                                                                                                                                                                                                                                                     0
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                                                                                                                                                                                                                                                                                                                                   Query Match

87.1%; Score 27; DB 4; Length 221;
Best Local Similarity 85.7%; Pred. No. 1.8e+02;
Matches 6; Conservative 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          87.1%; Score 27; DB 4; Length 259; 100.0%; Pred. No. 2.1e+02; tive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Search completed: November 4, 2004, 00:54:52 Job time : 16.6667 secs
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 17454
LENGTH: 221
                                                                                                                                                                                                      TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: PRT

ORGANISM: Chlamydia pneumoniae
US-09-198-452A-366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity 100.
Matches 6; Conservative
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161 LTFKLSR 167
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 LTLKLSR 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         247 TLKLSR 252
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2 TLKLSR 7
                                                                                                                                                                                                                                                ; ORGANISM: FSEUUCH
US-09-252-991A-17454
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GenCore version 5.1.6
(c) 1993 - 2004 Compugen Ltd.
               Copyright
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protein search, using sw model OM protein

4, 2004, 00:36:19; Search time 19 Seconds (without alignments) 35.448 Million cell updates/sec November Run on:

US-09-712-819D-13 score:

1 LTLKLSR 7 Sequence:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters:

length: 0 length: 2000000000 DB DB Minimum I Maximum I

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database

PIR_79:*
1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

| | Description | Η, | Ω. | phosphoprotein pho | יַ | | | hypothetical prote | | | Descent. | phogo-volution | priage retared prof | H . | nypornerical prote | conserved hypothet | hypothetical prote | ABC transporter A | methylace (i | , | probable vows moth | Consequed himsthat | ribesomel material | himothot: process | nypochetical proce | prospirate Dillully | | VPS17 protein - ye | heat shock protein | hypothetical prote | alobin - hown abel | م ميوس م | ന |
|-----------|---------------|------|-----|--------------------|----------|-------|-------|--------------------|------|------|----------|----------------|---------------------|-------|--------------------|--------------------|--------------------|-------------------|--------------|-------|--------------------|--------------------|--------------------|-------------------|--------------------|---------------------|-------|--------------------|--------------------|--------------------|--------------------|----------|------|
| SUMMARIES | | | 0 5 | 70 | 14 | 86 | 74 | 31 | O) | 7 | m | 73 | 10 | 17 | 7 7 | 5/3 | 37 | 89 | 34 | 14 | 61 | 75 | 0 | 96 | 26 | | , , | * 0 | 78 | 25 | GR | 55 | 86 |
| 01 | Д | 0000 |) E | 0/611 | C7141 | T3399 | AE117 | AF15 | AE25 | E973 | C837 | G8277 | T3021 | 10000 | 0 0 | A835 | B869 | B7208 | B8653 | G8171 | F71561 | H826 | R5WX1 | T1799 | F644 | CARCO |) u | 0 6 | 4, | T177 | GGGAC | AF02 | AB15 |
| | DB | | 4 - | 4 . | N | ~ | ~ | (1 | 7 | N | 7 | 0 | c | 10 | 1 (| 7 | 7 | N | N | N | 7 | 7 | - | Ŋ | ٦ | c | 10 | 4 (| 7 | 7 | Н | N | 7 |
| | 면 | 1 0 | 0 0 | 700 | 555 | 726 | 153 | 153 | 633 | 633 | 686 | 845 | 139 | 961 | 0 0 | 100 | 191 | 259 | 259 | 259 | 259 | 284 | 336 | 360 | 389 | 428 | 7.7.5 | 1 0 | 0 1 | 108 | 151 | 187 | 198 |
| % | Query | 1 0 | | 5 6 | ຠ | ന | 0 | 90.3 | 0 | 0 | 0 | 0 | 7 | ٠. | ٠. | ٠. | ٠. | | 7 | 7. | 7 | ۲. | ζ. | ۲. | 87.1 | | _ | | ٠, | 'n | ۳. | 83.9 | ë. |
| | Score | 21 | n (| 1 6 | 43 | 29 | 28 | 28 | 28 | 28 | 28 | 28 | 27 | 27 | 22 | 0 6 | / 7 | 5.3 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 2.0 | 1 (| 97 | 26 | 26 | 26 |
| | Result No. | | 10 | , | n | 4 | Ŋ | 9 | 7 | ω | თ | 10 | 11 | 12 | 13 | 7 - | 1 t | Ω , | 16 | 17 | 18 | 13 | 20 | 21 | 22 | 23 | 24 | 25 | 10 | 0 1 | 27 | 28 | 29 |

| hypothetical prote dimp dinhosnhatase | hypothetical prote | sogium-dependent t NADH2 dehydrogenas | protein K04F1.6 [i | probable calreticu | probable membrane | hypothetical prote | phenylalanine-trna | uncharacterized me | hypothetical profe | NADH2 dehvdrogenas | ferrichrome iron r | fech protein 116140 | outer membrane pro |
|--|--------------------|--|--------------------|--------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|--------------------|
| A97831 WZBEP1 | T29212 | T12591 | G88955 | T07841 | AG0948 | T31534 | C71111 | H97274 | T15354 | T11297 | AH2626 | G9740B | B97725 |
| 2 1 | 0,0 | 1 (1 | 0 | 0 | 0 | ~ | N | (7) | 7 | 7 | (7 | 7 | N |
| 282 | 294 | 348 | 374 | 422 | 473 | 488 | 499 | 520 | 532 | 611 | 708 | 747 | 768 |
| 83.9 93.9 | 83.0 | 83.9 | 83.9 | 83.9 | 83.9 | 83.0 | 83.9 | 83.9 | 83.9 | 83.9 | 83.9 | 83.9 | 83.9 |
| 26 26 | 7 P | 26 | 56 | 9 7 | 7.6 | 97 | 56 | 56 | 26 | 26 | 26 | 56 | 56 |
| 30 31 | 3 B | 34 | 35 | o 1 | 750 | 20 c | 9.5 | 40 | 41 | 42 | 43 | 44 | 45 |

ALIGNMENTS

| н | |
|-----|-----|
| ULT | 000 |

C64038

Npochetical protein H11605 - Haemophilus influenzae (strain Rd KW20)
C;Species: Haemophilus influenzae
C;Species: 18-Aug-1995 #sequence_revision 18-Aug-1995 #text_change 09-Jul-2004
C;Accession: C64038

RyPieischmann, R.D.; Adams, M.D.; White, O.; Clayton, R.A.; Kirkness, E.F.; Kerlavage, J. Gocayne, J.D.; Scott, J.; Shirley, R.; Liu, L.I.; Glodek, A.; Kelley, J.M.; Weidman, J. Brandon, R.C.; Fine, L.D.; Fritchman, J.L.; Glodek, A.; Kelley, J.M.; Weidman, Science 269, 496-512, 1995
A;Authors: Gnehm, C.L.; McDonald, L.A.; Small, K.V.; Fraser, C.M.; Smith, H.O.; Venter, A;Authors: Gnehm, C.L.; McDonald, L.A.; Small, K.V.; Fraser, C.M.; Smith, H.O.; Venter, A;Reference number: A64000; MUD:95350630; PMID:7542800
A;Accession: C64038
A;Accession: C64038
A;Accession: C64038
A;Accession: C4038
A;Access

Similarity 100.0%; Score 31; DB 2; Length 203; Similarity 100.0%; Pred. No. 6.3; 7; Conservative 0; Mismatches 0; Indels Mismatches Best Local Similarity Matches 7; Conserv Query Match

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Gaps

; 0

Indels

0;

103 LTLKLSR 109 1 LTLKLSR 7 ö g

RESULT 2 T19701

phosphoprotein phosphatase (EC 3.1.3.16) C34C12.3 - Caenorhabditis elegans C;Species: Caenorhabditis elegans C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 16-Aug-2004 C;Accession: T19701

Rikershaw, J.

submitted to the EMBL Data Library, December 1994

A.Reference number: 219166

A.Reference number: 219166

A.Reference number: 219166

A.Reference number: 21916

A.Reference number: 21916

A.Reference: translated from GB/EMBL/DDBJ

A.Rolecule type: DNA

A.Residues: 1-382 - WILL

A.Ross-references: EMBL: Z46996; PIDN: CAA87100.1; GSPDB: GN00021; CESP: C34C12.3

A.Roperimental source: clone C34C12

A.Genetics:
A.Genetics:

AMAD position: 3
A:Introns: 77/2; 107/2; 145/1; 179/2; 221/3; 265/3; 292/3; 336/1
C:Superfamily: Serine/threonine protein phosphatase; phosphoesterase core homology; phocykeywords: iron; metalloprotein; phosphoric monoester hydrolase; serine/threonine-spec: F;96-356/Domain: phosphoertering phosphatase homology <PPP>
F;124-192/Domain: phosphoesterase core homology <PPE>

δ Db

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Apporterical protein lmc00797 [imported] - Listeria monocytogenes (strain EGD-e)
C;Species: Listeria monocytogenes
C;Species: Listeria monocytogenes
C;Accession: AEII74
C;Accession: AEII74
R;Glaser, P.; Frangeul, L.; Buchrieser, C.; Amend, A.; Baquero, F.; Berche, P.; Bloecker, R;Glaser, P.; Frangeul, L.; Buchrieser, C.; Amend, L.; Dussurget, O.; Entian, K.D.; Fshhi, H.; D.; Jones, L.M.; Karst, U.
Science 294, 849-852, 2001
A;Authors: Kreft, J.; Kuhn, M.; Kunst, F.; Kurapkat, G.; Madueno, E.; Maitournam, A.; M.
Science 294, 849-852, 2001
A;Authors: Kreft, J.; Kuhn, M.; Fisteria species.
A;Accession: AEII74
A;Accession: AEII74
A;Accession: AEII74
A;Accession: AEII74
A;Sesidues Type: DNA
A;Acsius: preliminary
A;Molecule type: DNA
A;Accession: AEII74
A;Sesidues: 1-153 < GLA>
A;Residues: 1-153 < GLA>
A;Residues: 1-153 < GLA>
A;Experimental source: strain EGD-e
A;Experimental source: strain EGD-e
A;Genetics:
A
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C;Species: Listeria innocus
C;Species: Listeria innocus
C;Deccies: Listeria Buchriseer, C.; Amend, A.; Baquero, F.; Berche, P.; Bloecke
R;Glaser, P.; Frangeul, L.; Buchriseer, C.; Amend, A.; Baquero, F.; Berche, P.; Bloecke
B;Glaser, P.; Frangeul, L.; Buchriseer, C.; Amend, A.; Baquero, F.; Berche, P.; Fibli, B.
D; Jones, L.M.; Karst, U.
Science 294, 849-852, 2001
A;Authors: Kreft, J.; Kuhn, M.; Kunst, F.; Kurapkat, G.; Madueno, E.; Maitcurnam, A.; P.
Ok, C.; Schlueter, T.; Simoes, N.; Tierrez, A.; Vazquez-Boland, J.A.; Voss, H.; Wehland
A;Ritle: Comparative genomics of Listeria species.
A;Ritle: Comparative genomics of Listeria species.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A,Cross-raferences: UNIPROT:Q92DM3; GB:AL592022; PIDN:CAC96022.1; PID:g16413241; GSPDB:
A,Experimental source: strain Clip11262
C,Genetics:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ô
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
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C;Species: Agrobacterium tumefaciens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     .;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             90.3%; Score 28; DB 2; Length 153;
85.7%; Pred. No. 26;
ive 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
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85.7%; Pred. No. 26;
ive 1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         6, Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ||||||:
LTLKLSK 104
                                                                             LTLKISR 518
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Best Local Similarity
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A,Status: preliminary
A,Molecule type: DNA
A,Residues: 1-153 <GLA>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity
Matches 6; Conserv
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LTLKLSR
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           98
                                                                             512
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        hypothetical protein - Arabidopsis thaliana (mouse-ear cress)
A;Variety: columbia
C;Species: Arabidopsis thaliana (mouse-ear cress)
A;Variety: columbia
C;Species: Arabidopsis thaliana (mouse-ear cress)
A;Variety: columbia
C;Accession: C71414
C;Ac
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A;Molecule type: DNA
A;Molecule type: DNA
A;Moscales: 1-726 cPAU>
A;Residues: 1-726 cPAU>
A;Cross-references: UNIPROT:O9UAYI; EMBL:AF125964; PIDN:AAD14754.1; GSPDB:GN00022; CESP:A;Experimental source: strain Bristol N2; clone W03G1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A;Residues: 1-555 <BEV>
A;Cross-references: UNIPROT:023360; GB:Z97337; NID:g2244829; PID:e326846; PID:g2244863
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A,Status: preliminary; nucleic acid sequence not shown; translation not shown
A,Molecule type: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                hypothetical protein W03G1.6 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 29-Oct-1999 #sequence_revision 29-Oct-1999 #text_change 16-Aug-2004
C;Accession: T33998
R;Pauley, A.; Scheet, P.; Harper, M.
Submitted to the EMBL Data Library, February 1999
A;Description: The sequence of C. elegans cosmid W03G1.
A;Reference number: Z21454
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          697/3
    F;130,132,158/Binding site: iron (Asp, His, Asp) #status predicted F;158,190,240,315/Binding site: zinc (Asp, Asn, His, His) #status predicted F;161,191,339/Active site: Asp, His, Tyr #status predicted F;162,288/Binding site: substrate phosphate (Arg) #status predicted
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A;Map position: 4
A;Introns: 21/1; 48/3; 87/3; 224/3; 280/3; 347/3; 468/3; 523/1; 584/1;
C;Superfamily: protein kinase homology
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Pred. No. 67;
1; Mismatches 0; Indels
                                                                                                                                                                                                                  100.0%; Score 31; DB 1; Length 382; 100.0%; Pred. No. 12;
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Pred. No. 52;
1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                        0; Indels
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ilarity 85.7%;
Conservative 1
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Best Local Similarity 100...
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411 LTLKISR 417
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Best Local Similarity
Matches 6; Conserva
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Best Local Similarity
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A;Cross-references: UNIPROT:Q9KF22; GB:AP001509; GB:BA000004; NID:g10173176; PIDN:BAB04; A;Experimental source: strain C-125
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B. Simpson, A.J.G.; Reinach, F.C.; Arruda, P.; Abreu, F.A.; Acencio, M.; Alvarenga, R.; Strones, M.R.P.; Camargo, A.A.; Camargo, L.E.A.; Carraro, D.M.; Carrer, Briones, M.R.P.; Bueno, M.R.P.; Camargo, A.A.; Camargo, L.E.A.; Carraro, D.M.; Carrer, Submitted to GenBank, June 2000

B. A. Authors: Ferreira, V.C.A.; Ferro, J.A.; Franca, S.C.; Franco, M.C.; Front old, D.; Junqueira, M.L.; Kemper, E.L.; Kitajima, J.P.; Krieger, J.E.; Kuramae, E.E.; Laigendo, M.A.; Madeira, M.E.N.; Madeira, M.Y.; Martins, C.L.; Marques, M.V.; Martins, F.G.; Nunes, L.R.; Oliveira, M.Y.; Menck, C.F.M.; Miracca, B.C.; Miyaki, C.Y.; F.G.; Nunes, L.R.; Oliveira, M.C.; Golliveira, M.C.; Golliveira, R.C.; Palmieri, D.; Rodrigues, V.; Rosa, A.J. de M.; de Rosa Jr., V.B.; de Sa, R.G.; Santelli, R.V.; Santelli, M. Tsuhako, M.H.; Vallada, H.; Van Sluva, M.R.; Verjovski-Almeida, S.; Vettore, A.L.; A; Contents: annotation
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C;Date: 22-Oct-1999 #sequence_revision 22-Oct-1999 #text_change 09-Jul-2004
C;Accession: T30212
R;Hellmann, C; Hussain, M.; Peters, G.; Gotz, P.
Mol. Microbiol. 24, 1013-1024, 1997
A;Title: Evidence for autolysin-mediated primary attachment of Staphylococcus epidermid: A;Reference number: 220779; MUD:97363715; PMID:9220008
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C;Accession: G82773
R;anonymous, The Xylella fastidiosa Consortium of the Organization for Nucleotide Sequent Nature 406, 151-157, 2000
A;Title: The genome Sequence of the plant pathogen Xylella fastidiosa.
A;Reference number: A82515; MUID:20365717; PMID:10910347
A;Note: for a complete list of authors see reference number A59328 below
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A;Residues: 1-845 <SIM>
A;Cross_references: UNIPROT:Q9PFF4; GB:AE003913; GB:AE003849; NID:g9105578; PIDN:AAP835
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  phage-related protein XF0705 [imported] - Xylella fastidiosa (strain 9a5c) C;Species: Xylella fastidiosa C;Date: 18-Aug-2000 #sequence_revision 20-Aug-2000 #text_change 09-Jul-2004
                                                                                                                                                                                                                                                                                      Gaps
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                                                                                                                                                                                                                Length
                                                                                                                                                                                                         Score 28; DB 2; Le:
Pred. No. 1.1e+02;
1; Mismatches 0;
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Pred. No. 1.4e+02;
1; Mismatches 0;
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Best Local Similarity 85.7
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                        471 LTLKLNR 477
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Best Local Similarity
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                                                                                                                                            A; Gene: BH0675
                                                                                                                  C;Genetics:
                                                                                                                                                                                                                                                                               Matches
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                                                         R; Wood, D.W.; Secubal, J.C.; Kaul, R.; Monks, D.; Chen, L.; Wood, G.E.; Chen, Y.; Woo, I erage, G.; Gillet, W.; Grant, C.; Guenthner, D.; Kutyavin, T.; Levy, R.; Li, M.; McClell Kary, P.; Romero, P.; Zhang, S. Science 294, 2317-2323, 2001
A; Atthors: Yoo, H.; Tao, Y.; Biddle, P.; Jung, M.; Krespan, W.; Perry, M.; Gordon-Kamm,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 8
E97373
dnaJ protein (heat shock protein 70) (hsp70) [imported] - Agrobacterium tumefaciens (str
                                                                                                                                                                                                                                                                                                                                                                                                                                                              GB:AE008688; PIDN:AAL41147.1; PID:g17738443; GSPDB:q
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C83734
C583734
C583734
C58904
C59pecies: Bacillus halodurans
C59pecies: Bacillus halodurans
C59pecies: Bacillus halodurans
C57pecies: Bacillus halodurans
C57pecies: 01-Dec-2000
C57accession: C83734
C57accession: C83734
Nucleic Acids Res. 28, 4317-4331, 2000
A57Takami, H.; Nakasone, K.; Takaki, Y.; Maeno, G.; Sasaki, R.; Masui, N.; Fuji, F.; Hira
Nucleic Acids Res. 28, 4317-4331, 2000
A57Title: Complete genome sequence of the alkaliphilic bacterium Bacillus halodurans and
A57Eference number: A83650; MUID: 20512582; PMID: 11058132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A;Title: Genome Sequence of the Plant Pathogen and Biotechnology Agent Agrobacterium tum
A;Reference number: A97359; MUID:21608551; PMID:11743194
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A;Cross-references: UNIPROT:P50019; GB:AE007869; PIDN:AAK85942.1; PID:g15154995; GSPDB:G
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                                                                                                                                                                                                                             ster, E.W.
A;Title: The Genome of the Natural Genetic Engineer Agrobacterium tumefaciens C58.
A;Reference number: AB2577; MUID:21608550; PMID:11743193
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C;Date: 11-Jan-2002 #sequence_revision 11-Jan-2002 #text_change 09-Jul-2004
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Pred. No. 1e+02;
1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                         A;Residues: 1-633 <KUR>
A;Cross-references: UNIPROT:P50019; GB:AE0
A;Experimental source: strain C58 (Dupont)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A;Map position: circular chromosome C;Superfamily: heat shock protein 70
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A;Map position: circular chromosome
C;Superfamily: heat shock protein 70
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ilarity 85.7%;
Conservative
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A; Status: preliminary
A; Molecule type: DNA
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A; Status: preliminary
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C; Genetics:

RESULT 9

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Query Match

Matches

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hypothetical protein folk [imported] - Mycobacterium leprae
C;Species: Mycobacterium leprae
C;Species: Mycobacterium leprae
C;Date: 20-Apr-2001 #sequence_revision 20-Apr-2001 #text_change 09-Jul-2004
C;Accession: B8697
C;Accession: B8697
R;Oole, S.T.; Eiglmeier, K.; Parkhill, J.; James, K.D.; Thomson, N.R.; Wheeler, P.R.; H.; Davies, R.M.; Buthhoy, S.; Feltwell, T.; Fraser, A.; Hamlin, N.; Holroyd and M.; R.M.
Nature 409, 1007-1011, 2001
A;Authors: Rutter, S.; Seeger, K.; Simon, S.; Simmonds, M.; Skelton, J.; Squares, R.; Schitle: Massive gene decay in the leprosy bacilius.
A;Reference number: A66909; MUID:21128732; PMID:11234002
A;Recession: B86937
A;Accession: B86937
A;Accession: Draliminary
A;Molecule type: DNA
A;Residues: 1-191 <STO>
A;Cross-references: UNIPROT:069528; GB:AL450380; NID:g13092570; PIDN:CAC29734.1; GSPDB:CACCESTACE
A;Cross-references: UNIPROT:069528; GB:AL450380; NID:G13092570; PIDN:CACCESTACE
A;Cross-references: UNIPROT:069528; GB:AL450380; NID:G1309570; PIDN:CACCESTACE
A;Cross-references: UNIPROT:069528; GB:AL450380; NID:G13095270; PIDN:CACCESTACE
A;Cross-references: UNIPROT:069528; GB:AL450380; NID:G1309570; PIDN:CACCESTACE
A;Cross-references: UNIPROT:069528; GB:AL450380; NID:G1309570; PIDN:CACCESTACE
A;Cross-references: UNIPROT:069528; GB:AL450380; NID:G1309570; PIDN:CACCESTACE
A;CACCESTACE

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A;Gene: folk
C;Superfamily: 2-amino-4-bydroxy-6-bydroxymethyldihydropteridine pyrophosphokinase; 2-ar
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A.Title: Comparative genomes of Clamydia pneumoniae and C. trachomatis.

A;Reference number: A72000; MUID:99206606; PMID:10192388

A;Reference number: A72000; MUID:99206606; PMID:10192388

A;Reference number: A72000; MUID:99206606; PMID:10192388

A;Reference number: DNA

A;Reference number: A72000; MUID:99206606; PMID:10192388

A;Reference number: A72000; MUID:99206606; PMID:10192388

A;Reference number: DNA

A;Residues: L-259 <ARNA

A;Resi
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Pred. No. 56;
0; Mismatches 1; Indels
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C;Superfamily: ATP-binding cassette homology
F;24-217/Domain: ATP-binding cassette homology <ABC>
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Best Local Similarity 85.7
Matches 6; Conservative
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Nature 406, 959-964, 2000 A;Title: Complete genome sequence of Pseudomonas aeruginosa PAD1, an opportunistic pathothan apprehence number: A825950; MUID:20437337; PMID:10984043 A;Residues: preliminary A;Residues: 1-189 csTO-A;Status: preliminary A;Residues: 1-189 csTO-A;Coss-references: UNIPROT:Q915V6; GB:AE004494; GB:AE004091; NID:g9946446; FIDN:AAG0397 A;Residues: 1-180 csTo-A;Coss-references: Strain PAD1 C;Genetics: A;Genetics: 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              hypothetical protein SA0904 [imported] - Staphylococcus aureus (strain N315)
C;Species: Staphylococcus aureus
C;Date: 10-May-2001 #sequence_revision 10-May-2001 #text_change 09-Uul-2004
C;Date: 10-May-2001 #sequence_revision 10-May-2001 #text_change 09-Uul-2004
C;Surcosion B89847 T: Uchiyama, I:; Baba, T:; Yuzawa, H.; Kobayashi, I:; Cui, L.; Oguc ma, A.; Mizutani-Ui, Y.; Kobayashi, N.; Sawano, T.; Inoue, R.; Kaito, C.; Sekimizu, K.;
C.; Shiba, T.; Hattori, M.; Ogasawara, N.; Hayashi, H.; Hiramatsu, K.
Lancet 357, 1225-1240, 2001
A;Title: Whole genome sequencing of meticillin-resistant Stapylococcus aureus.
A;Reference number: A89758; MUID:21311952; PMID:11418146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A;Cross-references: UNIPROT.Q99V42; GB:BA000018; PID:g13700853; PIDN:BAB42149.1; GSPDB:G
A;Experimental source: strain N315
C;Genetics:
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                                                                                               Length 139;
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Pred. No.
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71.4%;
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Best Local Similarity 71...
Best Local 5; Conservative
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51 LTMKISR 57
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51 LTMKISR 57
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Search completed: November 4, 2004, 00:48:42 Job time: 20 secs

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Q7nt21 chromobacte
091g01 arabidopsis
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Q78eb7 neurospora
086fm0 caenorhabdi
09uay1 caenorhabdi
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09vum8 drosophila
07kum3 drosophila
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Q986h5 rhizobium 1
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Cae49472 corynebac
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(c) 1993 - 2004 Compugen Ltd.
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Q74H59

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Q9CFM0

Q9CFM0

Q9CFM0

Q9VUM3

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Maximum Match 100%
Listing first 45 summaries
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Gapop 10.0 , Gapext 0.5
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| O33528 rhizobium 1 Q98dd1 rhizobium 1 Q9kf22 bacillus ha Q9kf22 bacillus ha Q9f6f4 xylella fas Bac86701 homo sapi Q75dk8 ashbya goss Aas50783 ashbya go O15085 homo sapien Q6pfw2 homo sapien Q6pfw2 homo sapien Cag26691 homo sapi Cag26691 homo sapi Q6kcd5 mus muscu Caf26691 homo sapi | ria; Pasteurellales; ria; Pasteurellales; syton R.A., Kirkness B.F., dblow B.A., Merrick J.M., dc.A., Gocayne J.D., "A. Kelley J.W., dblow B.C., Cocton M.D., dblow B.C., Cocton M.D., ser C.M., Smith H.O., ser C.M., Smith H.O., y of Haemophilus influenzae "roduced through a collaboration ics and the EMBL outstation its and for commercial its content is in no way Usage by and for commercial http://www.isb-sib.ch/announce/ | Indels |
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| 638 1 DNAK_RHILE 638 638 1 DNAK_RHILD 3 686 2 Q9KF22 3 845 2 Q9FF4 3 969 2 BAC86701 3 1424 2 Q75DK8 3 1522 1 ARHB HUMAN 5 1562 2 Q6FW2 5 1562 2 Q6FW2 5 1562 2 Q6FW2 5 2691 2 CAG26691 5 2691 2 CAG26691 5 2798 1 NPBL_MOUSE 5 2798 2 CAF25291 | Created) Last sequence update) Last annotation update) Last annotation update) Last annotation update) List annotation List annotation List annotation List annotation List Liu L. L., Geogha, Liu L., Spriggs T., Hedblon Liu L., Spriggs T., Hedblon M.C., Nguyen D.T., Saudek L., Small K.V., Fraser C equencing and assembly of DS) List Copyright. It is productive of Bioinformatics Little of Bioinformat | 100.0%; Pred. No. 23; vative 0; Mismatches 0; |
| 288 888 888 888 888 888 888 888 888 888 | M. HAEIN STANDAR 272; NOV-1995 (Rel. 32, NOV-1995 (Rel. 32, OCTO-2004 (Rel. 45, OCTO-2 | Similarity 7; Conser |
| ипипипипи ф ф ф ф ф ф ф б п п п п п п п п п п п п | RESULT 1 YGIM HARIN DY COLNOV-1995 DT 01-NOV-1995 DT 01-NO | ocal |
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Aas70446 leptospir Q86de4 heterodera Q6mh57 bdellovibri Cae81070 bdellovibri Q90428 brachydanio Q88fil pseudomonas P50019 agrobacteri Q6rsn6 agrobacteri Aar84665 agrobacteri

DNAK AGRTS QGRSN6 AAR84665

072r88 leptospira 08f4i7 leptospira

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P SEQUENCE FKOW N.A.

P SEQUENCE FKOW N.A.

STRAIN=Biotype gravis / NCTC 13129;

X MEDLINE=22965443; PubMed=14602910;

X Cerdeno-Tarraga A.-M., Efstraitou A., Dover L.G., Holden M.T.G.,

A Pallen M.J., Bentley S.D., Besta G.S., Churcher C.M., James K.D.,

A Pallen M.J., Bentley S.D., Besta G.S., Churcher C.M., James K.D.,

A Rabbinowitson E., Rutherford K.M., Thomson N.R., Unwin L.,

Mitchead S., Barrell B.G., Parkhill J.;

The complete genome sequence and analysis of Corynebacterium

Whiteheriae NCTC13129.";

The diphtheriae NCTC13129.";

The diphtheriae NCTC31219.";

I SIMILARITY: Belongs to the ABC transporter family.

EMBL; BX248556; CAE49472.1; -.

IR ROS. 000105524; F:ATP binding; IEA.

InterPro; IPR003593; AAA_ATPase.

InterPro; IPR003593; AAA_ATPase.

R Pfam; PF000005; ABC transporter; 2.

R PML; SM00381; AAA, Z.

R SMART, SM00381; AAA, Z.
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MEDLINE-22965443; PubMed=14602910;
Cerdeno-Tarraga A.-M., Efstratiou A., Dover L.G., Holden M.T.G.,
Cardeno-Tarraga A.-M., Efstratiou A., Dover L.G., Holden M.T.G.,
Tallen M.J., Bentley S.D., Besra G.S., Churcher C.M., James K.D.,
De Zoysa A., Chillingworth T., Cronin A., Dowd L., Feltwell T.,
Hamlin N., Holroyd S., Jagels K., Moule S., Quail M.A.,
Rabbinowitsch E., Rutherford K.M., Thomson N.R., Unwin L.,
Whitehead S., Barrell B.G., Parkhill J.;
"The complete genome sequence and analysis of Corynebacterium
diphtheriae NGTG13129.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales; Corynebacterinee; Corynebacterine. NCBI_TaxID=1717;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               93.5%; Score 29; DB 2; Length 459; 85.7%; Pred. No. 1.8e+02; 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             93.5%; Score 29; DB 2; Length 459
85.7%; Pred. No. 1.8e+02;
.ive 1; Mismatches 0; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PROSITE; PS00211; ABC_TRANSPORTER_1; 2.
PROSITE; PS50893; ABC_TRANSPORTER_2; 2.
ATP-binding; Complete prefer prosident 459 AA; 49537 NW; 373303891C33A816 CRC64;
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02-MAR-2004 (TrEMBLrel. 27, Last sequence update)
02-MAR-2004 (TrEMBLrel. 27, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Putative ABC transport system ATP-binding protein
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EMBL; BX248356; CAE49472.1; ...
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Best Local Similarity 85...
6; Conservative
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25 LTLKISR 31
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LTLKISR 31
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Best Local Similarity
Matches 6; Conserv
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                                                                       FROM N.A.
NCBI_TaxID=1717;
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MEDLINE=21082936; PubMed=11214974;

Kaneko T., Nakamura Y., Sato S., Asamizu E., Kato T., Sasamoto S.,

Kaneko T., Nakamura Y., Sato S., Asamizu E., Kato T., Sasamoto S.,

Kishida Y., Kiyokawa C., Kohara M., Matsumoto M., Matsumo A.,

Kishida Y., Nakayama S., Nakazaki N., Shimpo S., Sugimoto M.,

Mochizuki Y., Mamada M., Tabata S.;

Takeuchi C., Yamada M., Tabata S.;

Tomplete genome structure of the nitrogen-fixing symbiotic bacterium

Mesorhizobium loti (supplement).";

Mesorhizobium loti (supplement).";

EMBL; AP003011; BAB53478.1;

HSSP: 034508; 1179M
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Kaneko T., Nakamura Y., Sato S., Asamizu B., Kato T., Sasamoto S., Watanabe A., Idesawa K., Ishikawa A., Kawashima K., Kimura T., Kishida Y., Kiyokawa C., Kohara M., Matsumoto M., Matsuno A., Mochizuki Y., Nakayama S., Nakazaki N., Shimpo S., Sugimoto M., Takeuchi C., Yamada M., Tabata S.; Takeuchi C., Yamada M., Tabata S.; Makazaki N., Shimpo S., Sugimoto M., Dabata S.; Dabata S.; Sugimoto M., Tabata S.; Makazaki N., Shimpo S., Sugimoto M., Dabata S.; Satoma S., Satom
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Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales;
Corynebacterineae; Corynebacteriaceae; Corynebacterium.
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85.7%; Pred. No. 1.4e+02;
iive 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales;
Phyllobacteriaceae; Mesorhizobium.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        367 AA; 39526 MW; 5E76121793FAD48A CRC64;
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                                                                                                                                                                                                                                                                                                                         01-OCT-2001 (TrEMBLrel. 18, Created)
01-OCT-2001 (TrEMBLrel. 18, Last sequence update)
01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
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                                                                                                                                                                                                                                                                PRT;
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MEDLINE=21082930; PubMed=11214968;
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                                                                                         103 LTLKLSR 109
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Length 459;

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RESULT 5

Q7NT21

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Cheuk R., Shinn P., Brooks S., Buehler E., Chao Q., Johnson-Hopson C., Khan C., Altafi H., Bei B., Chin C., Chiou J., Choi E., Com L., Conway A., Gonzalez A., Hansen N., Howing B., Koo T., Lam B., Ise J., Lee J., Lenz C., Li J., Liu A., Liu J., Liu S., Mukharsky N., Nayyen M., Palm C., Pham P., Sakano H., Schwartz J., Southwick A., Theologis A., Ecker J.;
Theologis A., Ecker J.;
Submitted (UIN-2000) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE FROM N.A.
Shinn P.P., Buehler E.E., Dunn P.P., Feng J.J., Kim C.C., Li Y.Y.,
Shinn P.P., Buehler E.E., Dunn P.P., Feng J.J., Kim C.C., Li Y.Y.,
Ganzalez A.A., Hansen N.N.F., Huizar L.L., Kremenetskaia I.I.,
Lenz C.C., Li J.J., Liu S.S., Huros S.S., Rowley D.D., Schwartz J.J.,
Toriumi M.M., Vysotskaia V.V., Yu G.G., Davis R.R.W.,
Federspiel N.N.A., Theologis A.A., Ecker J.J.R.;
Submitted (DEC-1998) to the EMBL/GenBank/DDBJ databases.
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Bevan M., Bancroft I., Bent E., Love K., Goodman H., Dean C.,
Bergkamp R., Dirkse W., van Staveren M., Stiekema W., Drost L.,
Ridley P., Hudson S.A., Patel K., Murphy G., Piffanelli P., Wedler H.,
Arabidopsis thaliana (Mouse-ear cress).
Bukaryota, Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosids;
eurosids II; Brassicales; Brassicaceae; Arabidopsis.
NCBI_TaxID=3702;
                                                                                                                                                                  Khan S., Brooks S., Buehler B., Chao Q., Johnson-Hopson C., Kim C., Shinn P., Altafi H., Bei Q., Chin C., Chiou J., Choi E., Conn L., Conway A., Gonzales A., Hansen N., Howng B., Koo T., Lam B., Lee J., Lenz C., Li J., Liu A., Liu K., Liu S., Mukharsky N., Nguyen M., Palm C., Pham P., Sakano H., Schwartz J., Southwick A., Thaveri A., Toriumi M., Vaysberg M., Yu G., Federspiel N.A., Theologis A.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             01-JAN-1998 (TrEMBLrel. 05, Created)
01-JAN-1998 (TrEMBLrel. 05, Last sequence update)
01-OCT-2004 (TrEMBLrel. 28, Last sequence update)
01-OCT-2004 (TrEMBLrel. 28, Last sequence update)
Hypothetical protein AT4g15060.
Name=AT4G15060; Synonyms=AT9G15060,
Arabidopsis thaliama (Mouse-ear cress).
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eurosids II; Brassicales; Brassicaceae; Arabidopsis.
NCBI_TaxID=3702;
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Pred. No. 2e+02;
1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                 Submitted (MAY-2000) to the EMBL/GenBank/DDBJ databases.
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InterPro; IPR006566; FBD.
InterPro; IPR008945; Skpl_Skp2.
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85.7%;
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SMART; SM00579; FBD; 1.
SMART; SM00256; FBOX; 1.
PROSITE; PS50181; FBOX;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRELIMINARY;
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                                                                                                                                                SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     526 AA;
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Matches 6; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 LTLKLSR 7
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                                                                                                                                                                                                                                                                                                                        Ecker J.R.;
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023360
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RESOURNCE FROM N.A.

RESOURNCE TO 12472 / DSM 30191;

RESULAL PARCE 12472 / DSM 30191;

RA PAINTE-22828380; PubMed-14500782;

RA MARCHINE-2288280; PubMed-14500782;

RA Alves-Gomes J.A.; Andrade B.F.C., de Almeida L.G.P., de Almeida R.C.P.,

RA Alves-Gomes J.A.; Andrade E.M., Araripe J., de Araujo, M.F.F.,

RA Alves-Gomes J.A.; Azevedo V., Baptista A.J., Bataus L.A.M.

RA Batista J.S., Belo A., van den Berg C., Bogo M., Bonatto S.,

RA Canargo A.A., Cardoso D.D.P., Carnelro N.P., Carraro D.M.,

Carcaynski-Pasa T.B., Cunha-Unnior N.C., Fagundes N., Falcao C.L.,

RA Gazzinelli R.T., Gomes B.A., Goncalves P.R., Grangeiro T.B.,

RA Gazzinelli R.T., Gomes B.A., Goncalves P.R., Grangeiro T.B.,

RA Gazzinelli R.T., Manfio G.P., Maranhao A.Q., Martins W.S.,

RA Gazzinelli D., Grisard B.C., Hama B.S., Jardim S.N., Laurino J.,

RA Gazzinelli D., Grisard B.C., Hama B.S., Jardim S.N., Laurino J.,

RA Gazzinelli R.T., Manfio G.P., Maranhao A.Q., Martins W.S.,

Al Mauro S.M.Z., de Medelros R.R.B., Messner R.V., Moreira M.A.M.,

RA Paixao R.F.C., Parente J.A., Pedrosa F.O., Pena S.D.J., Pereira J.O.,

RA Patxao R.F.C., Parente J.A., Pedrosa F.O., Pena S.D.J., Pereira J.O.,

RA Sandaho-Neto C.E., Parente J.A., Soluca B.M., Silva R., Silva R., Silva R., Salva A., Silva R., Soluca E.M.,

Salva A., Wassem R., Zaeffens M.B., Soluca E.M., Soluca E.M.,

Salva A., Wassem R., Zaeffens M.B., Silva B.M., Soluca E.M.,

Soluca R.C., Steffens M.B., Silva A., Simpson A.J.G., Sumane T.C.,

RA From J. R. A., Massem R., Zaeffens M.B., Silva B.M., Soluca E.M.,

Soluca R.C., Steffens M.B., Silva A., Silva B.M., Soluca E.M.,

Soluca R., Wassem R., Zaeffens M.B., Silva M., Silva R., Silva A., Silva B.M., Soluca E.M.,

RA PROBOPLE A., Wassem R., Zaeffens M.B., Silva A., Silva A., Silva A., Silva B.M., Soluca E.M.,

RA Percon Matl. Acad. Sci. U.S.A. 100:11660-11665 (2003).

REWELL A. Massem R.C., Selfensporter activity; IRA.

InterPro: IPRN07114: MRS.
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0
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Neisseriaceae; Chromobacterium.
NCBI_TaxID=536;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   93.5%; Score 29; DB 2; Length 465; 85.7%; Pred. No. 1.8e+02; ive 1; Mismatches 0; Indels
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46835 MW; 8332FB3DDDC56E2E CRC64;
                                                                                                                         01-MAR-2004 (TrEMBLrel. 26, Created)
01-MAR-2004 (TrEMBLrel. 26, Last sequence update)
01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
Transmembrane multidrug resistance efflux protein.
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Last annotation update)
                                                                                                                                                                                                                             Name=ebrB; OrderedLocusNames=CV3243;
                                                                                     PRT;
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(TrEMBLrel. 15, I
(TrEMBLrel. 26, I
                                                                                                                                                                                                                                                       Chromobacterium violaceum.
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                                                                                  PRELIMINARY;
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Best Local Similarity
Matches 6; Conserv
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01-MAR-2004 (
F20N2.9.
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DDR REFERENCE OF STATES OF

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Gaps

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Q9LG01; Q9LG01

Q9LG01 ID Q9 AC Q9 DT 01 DT 01 DE E2

RESULT 6

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PROSITE; PS01036; HSP70_3; 1.
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Best Local Similarity
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              ATP-binding
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                            SEQUENCE
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Matches
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AAR33368
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 Wedler E., Wambutt R., Weitzenegger T., Pohl T.M., Terryn N.,
Gielen J., Villarroel R., De Clerck R., van Montagu M., Lecharny A.,
A whorg S., Gy I., Kreis M., Lao N., Kavanagh T., Hempel S., Kotter P.,
Brinan K.D., Rieger M., Schaeffer M., Funk B., Mueller-Auer S.,
A silvey M., James R., Montfort A., Pons A., Puidomenech P., Douka A.,
A silvey M., James R., Montfort A., Pons P., Piravandi B., Obermaler B.,
Hilbert H., Duesterhoff A., Moores T., Jones J.D.G., Eneva T.,
A Palme K., Benes V., Rechman S., Ansorge W., Cooke R., Berger C.,
A Delseny M., Voet M., Volckaert G., Mewes H.W., Klosterman S.,
Schueller C., Chalwatzis N.,
Thalysis of I.9 Mb of contiguous sequence from chromosome 4 of
Thabidopsis thaliana.",
Nature 391:485-488(1998).
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SEQUENCE FROM N.A.
SEQUENCE FROM N.A.
SEQUENCE F. ATCC 51573;
Pubmed=14671304; DOI=10.1126/Science.1088727;
Pubmed=14671304; DOI=10.1126/Science.1088727;
Methe B.A., Nelson K.E., Eisen J.A., Paulsen I.T., Nelson W.C.,
Madupu R., Brinkac L.M., Daugherty S.C., DeBoy R.T., Durkin A.S.,
Gwinn M.L., Kolonay J.F., Sullivan S.A., Haft D.H., Selengut J.,
Davidsen T.M., Zafar N., Whitee O., Tran B., Romero C., Forberger H.A.,
Weidman J.F., Khouri H.M., Feldblyum T.V., Utterback T.R.,
Van Aken S.E., Lovley D.R., Fraser C.M.;
"Genome of Geobacter sulfurreducens: metal reduction in subsurface
                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Geobacter sulfurreducens.
Bacteria, Proteobacteria, Deltaproteobacteria, Desulfuromonadales;
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Pred. No. 2.2e+02;
1; Mismatches 0; Indels
                                                                                                                                                                                                    EU Arabidopsis sequencing project;
Submitted (MAR-2000) to the EMBL/GenBank/DDBJ databases.
BMBL; 273337; CABI0285.1; -.
EMBL; Ali61540; CAB78848.1; -.
PIR; C71414; C71414.
                                                                                                                                                                                                                                                                                                                                            64199 MW; C8D02D8C05481FFB CRC64;
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Last annotation update)
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                                                                                                                                                                                                                                                                 Interpro; IPR001610; P-box.
Interpro; IPR001610; P-box.
Interpro; IPR006566; PBD.
Interpro; IPR008945; Skpl_Skp2.
Pfam; PR00646; P-box; 1.
SMART; SM0579; PBD; 1.
Hypothetical protein.
SEQUENCE 555 AA; 64199 MW; CE
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PRINTS; PR00301; HSATSHCK70.
PRODOM; PD000089; HSP70; 1.
PROSITE; PS00297; HSP70_1; 1.
PROSITE; PS00329; HSP70_2; 1.
                                                                                                                                                                                                                                                                                                                                                                      93.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Chaperone protein dnaK.
Name=dnaK; ORFNames=GSU0033;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Geobacter.
                                                                                                                                                                                                                                                                                                                                                                                                  6; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                            411 LTLKISR 417
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Best Local Similarity
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                                                                                                                                                                                         SEQUENCE FROM N.A.
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NCBI_TaxID=35554;
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Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales;
Geobacteraceae; Geobacter.
VCBI_TaxID=35554;
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P42374;
01-000-1995 (Rel. 32, Created)
28-FEB-2003 (Rel. 41, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
05-JUL-2004 (Rel. 44, Last annotation update)
protein dnaK (Heat shock protein 70) (Heat shock 70 kDa protein) (HSP70).
Name=dnaK; OrderedLocusNames=R00182; OrFNames=SMC02857;
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STROUNCE FROM N.A.
STROUNCE FROM N.A.
STRAIN=ATCC 25416;
MEDLINE=95095949; PubMed=7528198;
MEDLINE=95095949; PubMed=7528198;
Falah M., Gupta R.S.;
"Cloning of the hsp70 (dnaK) genes from Rhizobium meliloti and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            .
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Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales;
Rhizobiaceae; Sinorhizobium/Ensifer group; Sinorhizobium.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  93.5%; Score 29; DB 2; Length 636; llarity 85.7%; Pred. No. 2.5e+02; Conservative 1; Mismatches 0; Indels
                                                     Length 636;
                                                  Score 29; DB 2; Length 636
Pred. No. 2.5e+02;
1; Mismatches 0; Indels
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636 AA; 68467 MW; 1519C2E3B6A380A4 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                       02-MAR-2004 (TrEMBLrel. 27, Created) 02-MAR-2004 (TrEMBLrel. 27, Last sequence update) 02-MAR-2004 (TrEMBLrel. 27, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                          PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Science 302:1967-1969(2003).
EMBL; AE017207; AAR33368.1; -.
TIGR; GSU0033; -.
                                                             93.5%;
                                       Query Match
Best Local Similarity 85...
6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A.
STRAIN=PCA / ATCC 51573;
PubMed=14671304;
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Predicted protein.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STRAIN=Bristol N2;
                                  Name=NCU00817.1;
                                                                                                      NCBI_TaxID=5141;
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                                                                                                                                                     STRAIN=OR74A;
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Matches
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                                                                               STRAIN=1021;
MEDLINE=21396507; PubMed=11481430; DOI=10.1073/pnas.161294398;
Capela D., Barloy-Hubler F., Gouzy J., Bothe G., Ampe F., Batut J.,
Capela D., Barloy-Hubler F., Gouzy J., Bothe G., Ampe F., Batut J.,
Godrie T., Goffeau A., Kahn D., Kiss B., Lelaure V., Masuy D.,
Pohl T., Portetelle D., Puehler A., Purnelle B., Ramsperger U.,
Renard C., Thebault P., Vandenbol M., Weidner S., Galibert F.;
Analysis of the chromosome sequence of the legume symbiont
Sinorhizobium melliloti strain 1021.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Phosphothreonine (by autocatalysis) (By
Pseudomonas cepacia: phylogenetic analyses of mitochondrial origin based on a highly conserved protein sequence.";
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85.7%; Pred. No. 2.5e+02;
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EMBL; AL591782; CAC41569.1; -.
EMBL; AF074451; AAD42995.1; -.
HSSP; P04475; 1DG4.
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01-MAR-2004 (TrEMBLrel. 26,
01-MAR-2004 (TrEMBLrel. 26,
01-MAR-2004 (TrEMBLrel. 26,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6; Conservative
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                                                                    SEQUENCE FROM N.A.
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SEQUENCE
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Q7SEB7
1D Q7SEB
AC Q7SEB
DT 01-MA
DT 01-MA
DT 01-MA
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RA Galagan J.E., Calvo S.E., Borkovich K.A., Selker E.U., Read N.D.,
RA Jaffe D., FitzHugh W., Ma L.-J., Smirnov S., Purcell S., Rehman B.,
RA Bitins T., Engels R., Wang S., Nielsen C.B., Butler J., Endrizzi M.,
RA Guito J. Ianakiev P., Pedersen D., Nelson M., Washburne M.,
RA Selitrennikoff C.P., Kinsey J.A., Braun E.L., Zelter A., Schulte U.,
RA Kothe G.O., Jedd G., Mewes W., Staben C., Marcotte E., Greenberg D.,
RA Kothe G.O., Jedd G., Mewes W., Staben C., Marcotte B., Schulte U.,
RA Krystofova S., Rasmussen C., Metzenberg R.L., Perkins D.D., Kroken S.,
RA Krystofova S., Rasmussen C., Metzenberg R.L., Perkins D.D., Kroken S.,
RA Krystofova S., Rasmussen C., Metzenberg R.L., Perkins D.D., Kroken S.,
RA Krystofova S., Rasmussen C., Metzenberg R.L., Perkins D.D., Kroken S.,
RA Krystofova S., Rasmussen C., Metzenberg R.L., Perkins D.D., Kroken S.,
RA Krystofova S., Rasmussen C., Metzenberg R.L., Perkins D.D., Kroken S.,
RA Krystofova S., Lander B., Dunlag J., Rafford A., Aramayo R.,
RA Natvig D.O., Alex L.A., Mannhaupt G., Ebbole D.J., Freitag M.,
Paulsen I., Sachs M.S., Lander E.S., Nusbaum C., Birren B.;
The Genome Sequence of the Filamentous Fungus Neurospora crassa.";
-1- CAUTION: The sequence shown here is derived from an
EMBL/GenBank/DDBJ whole genome shotgun (WGS) entry which is
Dreliminary data.

EMBL/GenBank/DDBJ * 72117 NW; D83AEF7E01292FE8 CRC64;
 Gaps
 Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Rhabditoidea;
Rhabditidae; Peloderinae; Caenorhabditis.
Neurospora crassa.
Eukaryota; Fungi, Ascomycota; Pezizomycotina; Sordariomycetes;
Sordariomycetidae; Sordariales; Sordariaceae; Neurospora.
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0
 "Genome sequence of the nematode C. elegans: a platform for investigating biology. The C. elegans Sequencing Consortium."; Science 282:2012-2018(1998).
 Length 679;
 93.5%; Score 29; DB 2; Length 679
85.7%; Pred. No. 2.78+02;
ive 1; Mismatches 0; Indels
 Waterston R.;
Submitted (APR-2003) to the EMBL/GenBank/DDBJ databases.
 Pauley A., Scheet P., Harper M.;
Submitted (FEB-1999) to the EMBL/GenBank/DDBJ databases
 01-JUN-2003 (TrEMBLrel. 24, Created)
01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
01-MR-2004 (TrEMBLrel. 26, Last annotation update)
Hypothetical protein W03G1.6.
 722 AA.
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STRAIN-Bristol N2;
MEDLINE=99069613; PubMed=9851916;
 6; Conservative
 PRELIMINARY;
 Caenorhabditis elegans.
 ||:||||
| 176 LTIKLSR 182
 SEQUENCE FROM N.A.
 1 LTLKLSR 7
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GO:0016740, F:transferase activity; IEA.
 Conservative
 PRELIMINARY;
 01-MAY-2000 (TremBirel.
 CG7255-PB (CG7255-pa).
ORFNames=CG7255;
 512 LTLKISR 518
 Best Local Similarity
Matches 6; Conserv
 7
 1 LTLKLSR
 Query Match
 Q9VUM8;
 RESULT 14
 Q9VUM8
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 ..
 Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Rhabditoidea;
Rhabditidae; Peloderinae; Caenorhabditis.
 Gaps
 EMBL, AF125964, AAD14754.1; -. PIR, T33989, T33998, T33998 HSSP; Q63450; LA66. HSSP; Q63450; LA66. G17284. G0; G0:0005524; F:ATP binding; IEA. G0; G0:0006524; F:protein serine/threonine kinase activity; IEA.
 EMBL; ALL2301,
HSSP; P31751; IGZK.
GO; GO:0005524; F:ATP binding; IEA.
GO; GO:0004674; F:ATP binding; IEA.
GO; GO:0016740; F:protein serine-threonine kinase activity; IEA.
GO; GO:0016740; F:transferase activity; IEA.
GO; GO:0016740; F:transferase activity; IEA.
GO; GO:0016740; F:transferase activity; IEA.
InterPro: IPR000719; Prot kinase like.
InterPro: IPR0002290; Ser_Ehr_pkinase.
InterPro: IPR0082271; Ser_Ehr_pkinase.
InterPro: IPR008271; Ser_Ehr_pkinase.
InterPro: Pkinase; I.
 "Genome sequence of the nematode C. elegans: a platform for investigating biology. The C. elegans Sequencing Consortium."; Science 282:2012-2018(1998).
 .,
 Length 722;
 93.5%; Score 29; DB 2; Length 722
85.7%; Pred. No. 2.8e+02;
ative 1; Mismatches 0; Indels
 SEQUENCE FROM N.A.
STRAIN=Bristol N2;
Pauley A., Scheet P., Harper M.;
Submitted (FEB-1999) to the EMBL/GenBank/DDBJ databases.
 Wilson R.;
Submitted (JUN-2003) to the EMBL/GenBank/DDBJ databases
 to the EMBL/GenBank/DDBJ databases
 Wilson R.;
Submitted (JUN-2003) to the EMBL/GenBank/DDBJ databases.
 Prodom; PRO0069; Pkinase; I.
Prodom; PRO00001; Prot kinase; 1.
Prodom; PRO0107; Prot kinase; 1.
PROSITE; PS00107; PROTEIN KINASE DDM; 1.
PROSITE; PS0011; PROTEIN KINASE DDM; 1.
PROSITE; PS00108; PROTEIN KINASE DDM; 1.
ATP-binding; Hypothetical protein; Kinase; Transferase.
SEQUENCE 722 Aa; 82249 NW; C3C3B2ABSCED6FB8 CRC64;
 01-MAY-2000 (TrEMBLrel. 13, Created)
01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
11-MAR-2004 (TrEMBLrel. 26, Last annotation update)
Hypothetical protein W03G1.6.
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 Caenorhabditis elegans.
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Submitted (APR-2003)
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 STRAIN-Bristol N2;
 NCBI_TaxID=6239;
 Wilson R.;
 Q9UAY1;
 Q9UAY1
 Matches
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RADINE=20196006; PubMed=10731132;

RADINE=2019606; PubMed=10731132;

RADINE=2019606; PubMed=10731132;

RADINE=2019606; PubMed=10731132;

RADINE=2019606; Scherer S.E., Li P.W., Hoskins R.A., Galle R.F.,

RADINE=2019606; Scherer S.E., Li P.W., Hoskins R.A., Galle R.F.,

RADINEDER R.A., Lewis S.E. Richards S., Ashburner W., Henderson S.N.,

RADINEDER R.C., Rogers Y.H., Blazej R.G., Champe M., Pfeiffer B.D.,

RADINE, C., Rogers Y.H., Blazej R.G., Champe M., Pfeiffer B.D.,

RADINE, R.W., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,

RADINE, R.W., Basu A., Barman B.P., Bhandarl D., Bolshakov S.,

RADINE, R.W., Bouck J., Erckstein P., Brottler P.,

RADINE, R.C., Busam D.A., Buller H., Cadieu B., Center A., Chandra I.,

RADINE, R.C., Busam D.A., Buller H., Cadieu B., Center A., Chandra I.,

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RADINE, R.C., Busam D.A., Buller H., Cadieu B., Center A., Chandra I.,

RADINE, R.C., Busam D.A., Buller R., Cadieu B., Center A., Chandra I.,

RADINE, R.C., Cabarielian A.E., Carriera S., Dunkov B.C., Dunn P.,

RADION K.J., Evangelista C.C., Ferraz C., Ferraz C., Ferriera S., Fleischmann W.,

RADINE, R.M., Maruph R.E., Garrell J.H., Gu Z., Glan P., Harris M.,

RADIALIN, Matter C.D., Heiman T.J., Hernandez J.R., Houck J.,

RADIALIN, Matter C.D., Karapen G.H., Re Z., Kennison D.,

RADINI R., Matter B., McIntohn T.C., McLeod M.P., Morpherson D.,

RADINI R., Matter B., McIntohn T.C., McLeod M.P., Morpherson D.,

RADION, Milshina N.V., Mobary C., Morris J., Moshrefi A.,

RADING, M., Pittman G.S., Naton R., Smith T.,

RADING, M., Pittman G.S., Shebeler R., Shon H.,

RADING, M., Pittman R., Sunders R., Sun B.,

RADING,
 Gaps
 0
 Drosophila melanogaster (Fruit fly).
Eukaryota; Metazoa; Arthropoda; Haxapoda; Insecta; Pterygota;
Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
Ephydroidea; Drosophilidae; Drosophila.
NCBI_TaxID=7227;
We go; GO:0006468; P:protein maino acid phosphorylation; IEA.

R GO; GO:0006468; P:protein maino acid phosphorylation; IEA.

R InterPro; IPR001709; Kinase_Cterm.

R InterPro; IPR001709; Kinase_like.

R InterPro; IPR00270; Ser thr pkinase.

R InterPro; IPR00271; Ser thr pkinase.

R Pfam; PF00149; KAl; 1.

R Pfam; PF00169; Pkinase; 1.

R Pfam; PF00169; Pkinase; 1.

R PROSITE; PS00107; PROTEIN KINASE ATP; 1.

R PROSITE; PS00101; PROTEIN KINASE ATP; 1.

R PROSITE; PS00108; PROTEIN KINASE ST; UNXOWN 1.
 Last sequence update)
Last annotation update)
 903 AA.
 Created)
 PRT;
 01-MAY-2000 (TrEMBLrel. 13,
01-OCT-2002 (TrEMBLrel. 22,
01-MAR-2004 (TrEMBLrel. 26,
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Drosophila melanogaster (Fruit fly).
Bukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
Ephydroidea; Drosophilidae; Drosophila.
 05-JUL_2004 (TrEMBLrel. 27, Created)
05-JUL_2004 (TrEMBLrel. 27, Last sequence update)
05-JUL_2004 (TrEMBLrel. 27, Last annotation update)
CG7255-PD (CG7255-pe).
 ORFNames=CG7255;
 Wang Z.Y., Wassarman D.A., Weinstock G.M., Weissenbach J., Williams S.M., Woodager, Worley K.C., Wu D., Yang S., Yao Q.A., Ye J., Yeh R.F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L., Zhong F.N., Zhong W., Zhou X., Zhu S., Zhu X., Smith H.O., Gibbs R.A., Myers B.W., Rubin G.M., Venter J.C., "The genome sequence of Drosophila melanogaster.";
 MEDLINE=22426065; PubMed=12537568;

MEDLINE=22426065; PubMed=12537568;

Celniker S.E., Wheeler D.A., Kronmiller B., Carlson J.W., Halpern A., Patel S., Adams M., Champe M., Dugan S.P., Frise E., Hodsson A., George R.A., Hoskins R.A., Laverty T., Muzny D.M., Nelson C.R., Pacleb J.M., Park S., Pfeiffer B.D., Richards S., Sodergren B.J., Svirskas R., Tabor P.E., Wan K., Stapleton M., Sutton G.G., Venter C., Weinstock G., Scherer S.E., Myers E.W., Gibbs R.A., Rubin G.M.; "Finishing a whole-genome shotgun: release 3 of the Drosophila melanogaster euchromatic genome sequence.";

Genome Biol. 3:RESEARCH0079-RESEARCH0079(2002).
 "The transposable elements of the Drosophila melanogaster euchromatin: a genomics perspective.";
Genome Biol. 3:RESEARCH0084-RESEARCH0084 (2002),
 MEDLINE=22426070; PubMed=12537573;
Kaminker J.S., Bergman C.M., Kronmiller B., Carlson J., Svirskas R.,
Patel S., Frise B., Wheeler D.A., Lewis S.E., Rubin G.M.,
Ashburner M., Celniker S.E.;
 Misra S., Crosby M.A., Mungall C.J., Matthews B.B., Campbell K.S., Hradecky P., Huang Y., Kaminker J.S., Millburn G.H., Prochnik S.E., Smith C.D., Tupy J.L., Whitfied B.J., Bayraktaroglu L., Berman B.P. Bettencourt B.R., Celniker S.E., de Grey A.D., prygdale R.A., Harris N.L., Richter J., Russo S., Schroeder A.J., Shu S.Q., stapleton M., Yamada C., Ashburner M., Gelbart W.M., Rubin G.M.,
 Submitted (MAR-2004) to the EMBL/GenBank/DDBJ databases.

EMBL; AE003531; AAF49646.2; -.

EMBL; AE0016020; C:membrane; IEA.

GO: GO:0016020; C:membrane; IEA.

GO; GO:0005815; F:amino acid-polyamine transporter activity; IEA.

GO; GO:0006816; P:amino acid-polyamine transport activity; IEA.

GO; GO:0006816; P:transport; IEA.

InterPro; IRR002293; AA/rel_permease1.

InterPro; IRR004841; Permease region.
 "Annotation of the Drosophila melanogaster euchromatic genome: a
 Score 29; DB 2; Length 903;
Pred. No. 3.6e+02;
1; Mismatches 0; Indels
 to the EMBL/GenBank/DDBJ databases.
 99174 MW; DBADASFED68D7BC5 CRC64;
 Systematic review.";
Genome Biol. 3:RESEARCH0083-RESEARCH0083(2002).
 MEDLINE=22426069; PubMed=12537572;
 Pfam; PF00324; AA permease; I. Transmembrane; Transport.
 93.5%;
 Submitted (SEP-2002)
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 SEQUENCE
 Query Match
 FLYBASE
 RAPARARA RAPARA RAPARARA RAPARARA RAPARA RAPARARA RAPARARA RAPARARA RAPARA RAPARARA RAPARARA RAPARARA RAPARARA RAPARARA RAPARARA RAPARARA RAPARARA RAPARA RAPARARA RAPARA RAPAR
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RA WIDLINESCROM N.A.

RA MARDINESCROM N.A.

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RA Adams M.D., Celniker S.E., Holt R.A., Evans C.A., Gocayme J.D.,

RA Adams M.D., Celniker S.E., Holt R.M., Hoskins R.A., Galle R.F.,

RA George R.A., Lewis S.E., Richards S., Champo Q., Chen L.X.,

RA Sutron G.G., Worthan J.E., Yandell M.D., Chang Q., Chen L.X.,

RA Brandon R.C., Rogers Y.H., Blazel R.G., Champo M., Pfeiffer B.D.,

RA Man K.H., Doyle C., Baxer B.G., Helt G. Welson C.R., Gabor G.L.,

RA Abril J.F., Agbayani A., An H.J., Andrews-Pfaunkoch C., Baldain D.,

Ballow R.M., Cands N., Berman B.P. Brandari D., Bolshakov S.

RA Besson K.Y., Benos P.V., Berman B.P. Brandari D., Bolshakov S.

RA Berisk K.C., Busam D.A., Butler H., Cadieu E., Center A., Chandra I.,

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RA Brits K.C., Busam D.A., Butler H., Cadieu E., Center A., Chandra I.,

RA de Pablos B., Delcher A., Deng Z., Mays A.D., Dew II., Dietz S.M.,

RA de Pablos B., Delcher A., Hommas M., Dugan-Rocha S., Dunkov B.C., Dunn P.,

Burbis K.J., Barvey D., Healman T.J., Hernandez J.R., Houck J.,

RA Harris N.L., Harvey D., Healman T.J., Hernandez J.R., Houck J.,

RA Harris N.L., Harvey D., Healman T.G., Morris G., Morris C., Siden K.M., My, M., Whyon B., Morrow C., Morris G., M
 Kaminker J.S., Bergman C.M., Kronmiller B., Carlson J., Svirskas R., Patel S., Frise E., Wheeler D.A., Lewis S.E., Rubin G.M., Ashburner M., Celniker S.E., "The transposable elements of the Drosophila melanogaster euchromatin:
 MEDLINE-21426065; PubMed=12537568; Calliker S.E., Wheeler D.A., Kronmiller B., Carlson J.W., Halpern A., Patel S., Adams M., Champe M., Dugan S.P., Frise E., Hodgson A., George R.A., Hoskins R.A., Laverty T., Muzny D.M., Nalson C.R., Pacleb J.M., Park S., Freifer B.D., Richards S., Sodergren E.J., Ryinstock G., Scherer S.E., Wars E.W., Gibbs R.A., Rubin G.W., Venter C. Weinstock G., Scherer S.E., Myers E.W., Gibbs R.A., Rubin G.M., Finishing a whole-genome shotgun: release 3 of the Drosophila genome Biol. 3:RESEARCH0079-RESEARCH0079(2002).
 a genomics perspective.";
Genome Biol. 3:RESEARCH0084-RESEARCH0084(2002).
 SEQUENCE FROM N.A.
MEDLINE=22426070; PubMed=12537573;
 SEQUENCE FROM N.A.
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Gaps

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Conservative

Local Similarity . 9

Best Loc Matches

596 ITLKLSR 602

1 LTLKLSR 7

971 AA.

PRT;

PRELIMINARY;

RESULT 15 Q7KUM3 ID Q7KUM3

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 Gaps
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SEQUENCE FROM N.A.

MEDLINE-22426069; PubMed=12537572;

Mista S., Crosby M.A., Mungall C.J., Matthews B.B., Campbell K.S.,

Hradecky P., Huang Y., Kaminker J.S., Milburn G.H., Prochnik S.E.,

Smith C.D., Tupy J.L., Whitfield B.J., Bayraktaroglu L., Berman B.P.,

Battencourt B.R., Celniker S.E., de Grey A.D., Drysdale R.A.,

Harris N.L., Richter J., Russo S., Schroeder A.J., Shu S.Q.,

Stapleton M., Yamada C., Ashburner M., Gelbart W.M., Rubin G.M.,

Lewis S.E.,

"Annotation of the Drosophila melanogaster euchromatic genome: a
 .,
 Query Match 93.5%; Score 29; DB 2; Length 971; Best Local Similarity 85.7%; Pred. No. 3.9e+02; Matches 6; Conservative 1; Mismatches 0; Indels
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Submitted (MAR-2004) to the EMBL/GenBank/DDBJ databases.
EMBJ, AB003531; AAS65000.1; -.
InterPro; IPR002293; AA/rel_permeasel.
InterPro; IPR004841; Permease_region.
Pfam; PF00324; Permease; 1.
Transmembrane; Transport.
SEQUENCE 971 AA; 106747 MW; 919608FD06398DF0 CRC64;
 Submitted (SEP-2002) to the EMBL/GenBank/DDBJ databases.
 systematic review.";
Genome Biol. 3:RESEARCH0083-RESEARCH0083(2002).
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664 ITLKLSR 670
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 FLYBASE;
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Search completed: November 4, 2004, 00:53:59 Job time: 105 secs

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Murine an Murine IC Murine an

Antibody
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Mouse ant
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Human 12.

Staphyloc Staphyloc Pseudomon

Aaw81448
Aay00781
Aay50781
Aab13044
Aay82443
Aay824635
Aay93726
Aay93726
Aay93726
Aay93726
Abm73321
Abm73321
Abm33216
Abm33216
Abm33216
Abm36277

Protein e Protein e Propionib Propionib Pseudomon Human PTH

Copyright

OM protein -

Run on:

# ALIGNMENTS

Human; monoclonal antitumour antibody; peripheral blood lymphocyte; cancer; tumourigenesis; anticancer vaccine. Anti-melanoma light chain antibody clone D33. AAW13517 standard; protein, 113 AA. Location/Qualifiers /label= His, Gly 55. .61 /label= CDR2 24. .39 /label= CDR1 (first entry) Misc-difference 28-OCT-1997 Homo sapiens AAW13517; Region Region Region 

/label= His, Gln 14. .102 /label= CDR3 Misc-difference WO9702479-A2

23-JAN-1997,

96WO-IB001032. 95US-00497647. 28-JUN-1996; 30-JUN-1995;

Cai X; Garen A,

(UYYA ) UNIV YALE,

WPI; 1997-109061/10.

Prodn. of human monoclonal anti-tumour antibodies - by screening a fusion phage library produced using peripheral blood lymphocytes from a cancer

Claim 19; Page 55; 82pp; English.

A process for isolating and synthesising human monoclonal anti-tumour

4 November

US-09-712-819D-13 1 LTLKLSR 7 Perfect score: Sequence:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

2002273 seqs, 358729299 residues Searched:

Total number of hits satisfying chosen parameters:

seq length: 0 seq length: 2000000000 Minimum DB s Maximum DB s

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

geneseq11980s:\* geneseq12000s:\* geneseq12001s:\* geneseq12001s:\* geneseq12001s:\* geneseq12003bs:\* geneseq12003bs:\* A\_Geneseq\_23Sep04:\* 1: geneseqp1980s:\* Database

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution. score

|           |        | Description |         | / Aucl-mel |           | 7 1      | •         |         | _        | n (      |          |                                         | Aab90806 Human she                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          | Himan    | 041     |          |          | 011-28   |                                         | Adf45494 Human KIA | Adh23366 Human qua | Himan    | Himan    | Transair | human<br>Marian | Nove     | Aucue/96 Human pro | b Ancips | ADOU4917 Human col |
|-----------|--------|-------------|---------|------------|-----------|----------|-----------|---------|----------|----------|----------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|---------|----------|----------|----------|-----------------------------------------|--------------------|--------------------|----------|----------|----------|-----------------|----------|--------------------|----------|--------------------|
|           |        |             |         |            |           |          |           |         |          |          |          |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |          |         |          |          |          |                                         |                    |                    |          |          |          |                 |          |                    |          |                    |
| ES        |        |             | 1       |            |           |          |           |         |          |          |          |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |          |         |          |          |          |                                         |                    |                    |          |          |          |                 |          |                    |          |                    |
| SUMMARIES |        |             | 517     | 590        | 770       | 0 0      | 7 4 0     | 17.0    | 131      | 404      | 000      | 0 0                                     | 900                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 328      | 509      | 412     | 826      | 161      | 10       | 7 7                                     | 40.0               | 366                | 442      | 522      | 496      | 6 4             | 796      | 77.0               | ٠.       | 4                  |
| SI        |        | ID          | AAW1351 | AAR2006    | AD. 14977 | AD.14939 | AD:T50245 | ABBEETS | ARR63131 | ARR49428 | 000CLD44 | 200000000000000000000000000000000000000 | DEGEN OF THE PROPERTY OF THE P | AAB42328 | AAY56509 | ADJ4941 | ADJ49826 | ADJ49161 | AAV41010 | 111111                                  | ADF45494           | ADHZ3366           | ADQ17442 | ADF45522 | ADF45496 | ADE0849         | ADC06796 | ADNO457            | AROD49   |                    |
|           |        | DB          | ุล      | ~          | 00        | α        | ο α       | 4       | 4        | ıc       | ۱ ۵      | ٠ ٦                                     | t c                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | m        | m        | ω       | œ        | ω        | 0        | 10                                      | o c                | 0                  | ∞        | ω        | œ        | 7               | 7        | ~                  | v        | ,                  |
|           |        | Length      | 113     | 131        | 638       | 641      | 641       | 870     | 880      | 153      | 1 C      | 010                                     | 1 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3.14     | 474      | 633     | 638      | 638      | 1520     | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1522               | 7707               | T225     | 1562     | 1562     | 1736            | 2685     | 2804               | 31       | !                  |
| ok        | Query  | Match       | 93.5    | 93.5       | •         |          | 93.5      |         |          |          |          | 90.3                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |          |         |          | 90.3     |          |                                         | 9 0                |                    |          |          | 90.3     | 90.3            | 90.3     | o.                 | 87.1     |                    |
|           |        | Score       | 29      | 29         | 29        | 29       | 29        | 29      | 29       | 28       | 28       | 28                                      | 0 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0 0      | 28       | 78      | 28       | 28       | 28       | 28                                      | α                  | 9 6                | 0 7      | 87       | 28       | 28              | 28       | 28                 | 27       |                    |
|           | Result | No.         | 7       | 2          | m         | 4        | ιΩ        | 9       | 7        | ∞        | σ        | 10                                      | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1 6      | 77       | 13      | 14       | 15       | 16       | 17                                      | 3 -                | 0 0                | 4 6      | 0 7 0    | 21       | 22              | 23       | 24                 | 25       |                    |

(a) constructing at

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continuous and because productors, the peripheral blood lymphocytes (PBLS) of a cancer patient; (b) screening for anti-tumour antibodies in (PBLS) of a cancer patient; (b) screening for anti-tumour antibodies in the phage library in a binding assay with cultured tumour antibodies by same type as the patient's tumour; (c) removing extraneous antibodies by absorption against normal human cells; (d) cloning the phage selected in assaying the specificity of the cloned phage by continuous thing the phage with at least two types of cultured normal cells; and (f) further testing the specificity of cloned phage that do not bind continuous cells derived from more than one other tumour that is not cultured tumour cells derived from more than one other tumour that is not the patient's tumour. The present sequence represents a human light chain callibody, from an scFv antibody fusion phage library, produced by a carbibodies have low immunogenicity in humans compared for antibodies have low immunogenicity in humans compared to murine continuous antibodies where low immunogenicity in humans compared to murine continuous antibodies fare isolated from conclonal antibodies (Mabs). Since the antibodies are isolated from fusion phage libraries, their affinity and specificity for a tumour cell fusion phage libraries, their affinity and specificity for a tumour cell income the phage income.
The process involves:
 antibodies has been produced.
 Sequence 113 AA;
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#### Score 29; DB 2; Length 113; Pred. No. 1.1e+02; 1; Mismatches 93.5%; 6; Conservative ||||:|| LTLKISR 82 LTLKLSR 7 Query Match Best Local Similarity Н 94 Matches ò qq

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Gaps

0

1.1e+02; ches 0; Indels

```
AAR20065 standard; protein; 131 AA.
 (revised)
 (revised)
 24-OCT-2003
25-MAR-2003
 27-MAR-1992
 AAR20065;
RESULT 2
 AAR20065
```

```
(first entry)
 MRK16-L chain
```

Monoclonal antibody; light; heavy; chain; cancer; drug resistance.

sapiens. Mus musculus. Chimeric.

JP03254691-A.

13-NOV-1991.

90JP-00051563. 90JP-00051563. 02-MAR-1990; 02-MAR-1990;

ZH GAN KENKYUKAI. FUJITA GAKUEN GH. JAPAN FOUND CANCER RES. (GANK-) (NICA-)

WPI; 1992-002461/01. N-PSDB; AAQ20071.

against drug resistant cancer - comprises variable to region in mouse monoclonal antibody and constant region homologoùs to region in mouse monoclonal anti region homologous to region in human immunoglobulin. Chimera antibody against drug

```
A chimeric antibody against drug-resistant cancer consists of (1) a variable region having an amino acid sequence homologous to a variable
Disclosure; Fig 5; 20pp; Japanese.
```

Length 638;

DB 8;

Score 29;

93.5%;

Sequence 638 AA;

Query Match

```
The invention relates to a recombinant DNA construct comprising a promoter functional in plants operably linked to an oil-associated gene. The construct is useful for transgent plant seed which has in its genome the construct, that is functional in the plant to transcribe the oil associated gene. The transgenic plant seed grows into a plant having enhanced seed oil as compared to wild type. The construct is useful for producing hybrid maize seed. The transgenic plant seed is useful for producing yegetable oil. The present sequence represents the amino acid sequence of an oil-associated gene related protein.
 Novel recombinant DNA construct comprising a promoter functional in plants operably linked to an oil-associated gene for producing transgenic plant seed.
 ·;
region in the mouse monoclonal antibody against drug- resistance and (2) a constant region having an amino acid sequence homologous to the constant region in human immunoglobulin. The chimeric antibody selectively inhibite the growth of cancer cells showing drug resistance or enhances the sensitivity to the drug. The antibody is very low in immunogenicity. The MRX16-H chain is shown in AAQ20070. (Updated on 25-MAR-2003 to correct PA field.) (Updated on 24-OCT-2003 to standardise OS field)
 Gaps
 oil-associated gene; transgenic; enhanced seed oil; vegetable oil.
 ..
0
 Rogers JA;
 Length 131;
 0; Indels
 Ledeaux JR,
 Score 29; DB 2; 1 Pred. No. 1.2e+02;
 1; Mismatches
 Oil-associated gene related protein #1270.
 Example 3; SEQ ID NO 1774; 22pp; English.
 Savage T,
 ADJ49770 standard; protein; 638 AA.
 15-MAR-2002; 2002US-0365301P.
26-JUN-2002; 2002US-0391786P.
26-JUN-2002; 2002US-0392018P.
 14-MAR-2003; 2003US-00389566.
 93.5%;
85.7%;
 (first entry)
 Σ
 Query Match
Best Local Similarity 85...
5. Conservative 6;
 Ravanello
 SAVAGE T.
LEDEAUX J R.
ROGERS J A.
 WPI; 2004-142683/14.
 LAURIE C C.
RAVANELLO M.
 ||||:||
LTLKISR 101
 7
 1 LTLKLSR
 US2004025202-A1.
 Sequence 131 AA;
 Unidentified
 06-MAY-2004
 05-FEB-2004.
 Laurie CC,
 ADJ49770;
 95
 (LAUR/)
(RAVA/)
 (SAVA/)
(LEDE/)
(ROGE/)
 ADJ49770
 8888888888
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Matches

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The invention relates to a recombinant DNA construct comprising a promoter functional in plants operably linked to an oil-associated gene. The construct is useful for transgenic plant seed which has in its genome the construct, that is functional in the plant to transcribe the oil-associated gene. The transgenic plant seed grows into a plant having enhanced seed oil as compared to wild type. The construct is useful for producing hybrid maize seed. The transgenic plant seed is useful for producing vegetable oil. The present sequence represents the amino acid sequence of an oil-associated gene related protein.
 Novel recombinant DNA construct comprising a promoter functional in plants operably linked to an oil-associated gene for producing transgenic
 gene; transgenic; enhanced seed oil; vegetable oil
 Drosophila, developmental biology; cell signalling; insecticide;
 Drosophila melanogaster polypeptide SEQ ID NO 25269.
 6.9e+02;
 Ledeaux JR,
 DB 8;
 Score 29; DB E
Pred. No. 6.9e+
1; Mismatches
 related protein #1745.
 Example 3; SEQ ID NO 2249; 22pp; English.
 Savage T,
 ABB66159 standard; protein; 870 AA.
 93.5%;
illarity 85.7%;
Conservative 1
 15-MAR-2002; 2002US-0365301P.
26-JUN-2002; 2002US-0391786P.
26-JUN-2002; 2002US-0392018P.
 14-MAR-2003; 2003US-00389566
 (first entry)
 06-MAY-2004 (first entry)
 Ravanello M,
 Drosophila melanogaster.
 Query Match
Best Local Similarity
6; Conserve
 LTMKLSR 297
 SAVAGE T.
LEDEAUX J R.
 LAURIE C C.
RAVANELLO M.
 WPI; 2004-142683/14.
 Oil-associated gene
 (ROGE/) ROGERS J A.
 7
 1 LTLKLSR
 Sequence 641 AA;
 US2004025202-A1.
 WO200171042-A2
 oil-associated
 pharmaceutical
 Unidentified
 26-MAR-2002
 05-FEB-2004
 Laurie CC,
 plant seed.
 ABB66159;
ADJ50245;
 (LAUR/)
(RAVA/)
 (SAVA/)
 RESULT 6
 ABB66159
BX8XEXEXEXSXE
 쉱
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 ö
 The invention relates to a recombinant DNA construct comprising a promoter functional in plants operably linked to an oil-associated gene. The construct is useful for transgenic plant seed which has in its genome the construct, that is functional in the plant to transcribe the oil-associated gene. The transgenic plant seed grows into a plant having enhanced seed oil as compared to wild type. The construct is useful for producing hybrid maize seed. The transgenic plant seed is useful for producing vegetable oil. The present sequence lant sequence is useful for sequence of an oil-associated gene related protein.
 Novel recombinant DNA construct comprising a promoter functional in plants operably linked to an oil-associated gene for producing transgenic plant seed.
 Gaps
 Gaps
 oil-associated gene; transgenic; enhanced seed oil; vegetable oil.
 ô
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 Rogers JA;
 Length 641;
 Score 29; DB 8; Length 641
Pred. No. 6.9e+02;
1; Mismatches 0; Indels
 Indels
 Ledeaux JR,
 Pred. No. 6.8e+02;
1; Mismatches 0;
 Example 3; SEQ ID NO 1393; 22pp; English.
 Oil-associated gene related protein #889.
 Savage T,
 ADJ50245 standard; protein; 641 AA.
 ADJ49389 standard; protein; 641 AA.
 1,
 15-MAR-2002; 2002US-0365301P.
26-JUN-2002; 2002US-0391786P.
26-JUN-2002; 2002US-0392018P.
 93.5%;
llarity 85.7%;
Conservative 1
 14-MAR-2003; 2003US-00389566
85.7%;
 (first entry)
 ΣÌ
 Conservative
 Laurie CC, Ravanello
 Query Match
Best Local Similarity
6; Conserv
 ||:||||
291 LTMKLSR 297
 291 LTMKLSR 297
 LAURIE C C.
RAVANELLO M.
 SAVAGE T.
LEDEAUX J R.
 WPI; 2004-142683/14.
 ROGERS J A.
 1 LTLKLSR 7
 Best Local Similarity
 1 LTLKLSR 7
 Sequence 641 AA;
 US2004025202-A1
 Unidentified
 06-MAY-2004
 9
 05-FEB-2004
 ADJ49389;
 (RAVA/)
(SAVA/)
(LEDE/)
(ROGE/)
```

(LAUR/)

RESULT 4
ADJ49389
ADJ

ADJ50245 ID ADJ5 XX

RESULT 5

임 ò

Rogers JA;

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Gaps

; 0

Length 641; Indels 18

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The invention relates to an isolated nucleic acid detection reagent capable of detecting 1000 or more genes from Drosophila. The invention useful in developmental biology and in elucidaring cell signalling and cell-cell interactions in higher eukaryotes for the development of insecticides, therapeutics and pharmaceutical drugs. The invention discloses genomic DNA sequences (ABL16176-ABL30511), expressed DNA sequences (ABL16176-ABL30511), expressed DNA ABB72072). The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
 New isolated nucleic acid detection reagent for detecting 1000 or more genes from Drosophila and for elucidating cell signaling and cell-cell
 ID NO 16185; 21pp + Sequence Listing; English
 Listeria monocytogenes.
 (INSP) INST PASTEUR.
 :||||||
573 ITLKLSR 579
 WPI; 2002-010914/01.
 Query Match
Best Local Similarity
 1 LTLKLSR 7
 Disclosure; SEQ
 Sequence 880 AA;
 WO200177335-A2.
 Buchrieser C,
 interactions.
 polypeptides.
 05-FEB-2002
 ABB49428;
 Best Loc
Matches
 RESULT 8
 ABB49428
ð
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 i.
 The invention relates to an isolated nucleic acid detection reagent capable of detecting 1000 or more genes from Drosophila. The invention useful in developmental biology and in elucidating cell signalling and cell-cell interactions in higher eukaryotes for the development of insecticides, therapeutics and pharmaceutical drugs. The invention discloses genomic DNA sequences (ABL16176-ABL30511), expressed DNA sequences (ABL16176-ABL30511), expressed DNA ABB72072). The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/published_pct_sequences
 New isolated nucleic acid detection reagent for detecting 1000 or more genes from Drosophila and for elucidating cell signaling and cell-cell
 Gaps
 Drosophila; developmental biology; cell signalling; insecticide;
 ;
0
 Disclosure; SEQ ID NO 25269; 21pp + Sequence Listing; English.
 Score 29; DB 4; Length 870;
Pred. No. 9.6e+02;
1; Mismatches 0; Indels
 Drosophila melanogaster polypeptide SEQ ID NO 16185.
 1; Mismatches
 Myers EW;
 Myers EW;
 ABB63131 standard; protein; 880 AA.
 Li PWD,
 PWD,
 23-MAR-2000; 2000US-0191637P.
11-JUL-2000; 2000US-00614150.
 23-MAR-2001; 2001WO-US009231.
 93.5%;
85.7%;
 23-MAR-2001; 2001WO-US009231
 23-MAR-2000; 2000US-0191637P
11-JUL-2000; 2000US-00614150
 (first entry)
 6; Conservative
 댠
 Drosophila melanogaster.
 Adams M,
 :||||||
563 ITLKLSR 569
 2001-656860/75.
 Adams M,
 WPI; 2001-656860/75.
 (PEKE) PE CORP NY.
 Local Similarity
 (PEKE) PE CORP NY
 1 LTLKLSR
 N-PSDB; ABL10262
 N-PSDB; ABL07234.
 Sequence 870 AA;
 WO200171042-A2
 pharmaceutical
 genes from Dr
interactions.
 27-SEP-2001
 26-MAR-2002
 27-SEP-2001.
 Venter JC,
 Venter JC,
 ABB63131;
 Query Match
 Matches
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.,0
 Genomic sequence for Listeria monocytogenes, useful e.g. for treatment and prevention of Listeria and related bacterial infections, and related
 The present invention relates to the genome sequence of Listeria monocytogenes BGD-e (see ABA03041). The genome sequence and fragments of
 Cossart P;
 Gaps
 Dehoux P;
 Amend A;
 Frangeul L, Couve E, Rusniok C, Fsihi H, Dehoux P, Chetcouni F, Nedjari H, Glaser P, Kunst F, Cossart obbl W, Kreft J, Kuhn M, Ng E, Vazquez-Boland JA, nal G, Garrido-Garcia P, Tierrez-Martinez A, Amend A, Domann E, Hain T, Berche P, Charbit A, Durant L, Baquero F, Garcia Portillo F, Gomez-Lopez N, De Pablos B, Wehland J, Kaerst U, Entian K, Hauf J,
 Antibacterial; gene therapy; vaccine; biosynthesis; biodegradation; vitamin B12; bacterial infection; disease.
 .,
93.5%; Score 29; DB 4; Length 880; 85.7%; Pred. No. 9.7e+02; ive 1; Mismatches 0; Indels
 Claim 6; SEQ ID NO 2133; 192pp; French.
 Listeria monocytogenes protein #2132.
 ABB49428 standard; protein; 153 AA.
 11-APR-2001; 2001WO-FR001118,
 11-APR-2000; 2000FR-00004629
 Dussurget O, Chetouani F, Daniels J, Goebel W, Kreft Dominguez-Bernal G, Garridg Chakraborty T, Domann B, Perez-Diaz J, Baquero F, G Maduenio E, De Pablos B, P Rose M, Voss H;
 (first entry)
 6; Conservative
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it are useful for selecting probes and primers for detecting genes in L. monocytogenes and related organisms, and for studying genetic polymorphisms and other genomes. The present sequence is a protein encoded by the genome sequence of the present invention. Proteins expressed from the genome sequence are useful for raising specific antibodies, identification of L. monocytogenes and related organisms, and cor biosynthesis and biodegradation, especially biosynthesis of Vitamin B12. The genome sequence and proteins encoded by it are also useful for selecting compounds that regulate gene expression and cell replication and modulate L. monocytogenes. related diseases. In addition, the genome sequence and proteins encoded by it are useful in pharmaceutical and vacines compositions for the treatment or prevention of infections by L. monocytogenes and related organisms. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at the print of the prin
 ó
 The present sequence is an olfactory receptor polypeptide which was used as a query sequence in a database search of olfactory receptor (OR)-like sequences. The invention relates to isolated polynucleotides encoding polypeptides involved in olfactory sensation. The polynucleotides can be used in screening for olfactory sensation. The polynucleotides can be allow for the determination of primary scents and the identification of the odour receptors used to detect these primary scents. The methods also enable determination of secondary scents and the identification of
 Gaps
 Human; olfactory receptor; OR; primary scent determination; secondary scent determination; polypeptide library; odour receptor; scent profile; scent fingerprint; scent representation.
 New polynucleotides which encode polypeptides involved in olfactory
 ;
0
 Yanai
 sensātion for identifying olfactory agonists and antagonists.
 Length 153;
 Indels
 Fuchs T,
 Olfactory receptor-like polypeptide, SEQ ID NO: 2668.
 Score 28; DB 5; Ler
Pred. No. 2.5e+02;
1; Mismatches 0;
 Glusman G,
 Example 6; Page 1804; 1857pp; English.
 AAG72986 standard; protein; 155 AA.
 Ď,
 Lancet
 (DIGI-) DIGISCENTS.
(YEDA) YEDA RES & DEV CO LTD.
 90.3%;
 06-OCT-2000; 2000WO-US027582.
 99US-0158615P.
2000US-0184809P.
 (first entry)
 Query Match 90.3
Best Local Similarity 85.7
Matches 6; Conservative
 Smith D,
 ||||||:
98 LTLKLSK 104
 WPI; 2001-290713/30.
 1 LTLKLSR 7
 Human; olfactory
 Sequence 153 AA;
 WO200127158-A2
 Bellenson J,
 24-FEB-2000;
 Unidentified
 08-OCT-1999;
 30-JUL-2001
 19-APR-2001.
 AAG72986;
 RESULT 9
 AAG72986
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0
combinations of odour receptors that are involved in detecting such secondary scents. This enables the construction of a scent representation (also called a scent fingerprint or scent profile), which may be used to re-create and edit scents. Libraries of olfactory receptors are useful for determining the interaction pattern of a composition with the receptors, and can be used for determining differences in the olfactory faculties of different individuals
 ò
 Human; shear stress-response protein; vascular disease; arteriosclerosis.
 Sakurada K;
 Gaps
 Gaps
 The present invention provides the protein and coding sequences of a number of human shear stress response proteins. These are useful in diagnosis, treatment and screening of vascular diseases caused by arterioscierosis, including heart failure, post-PTCA restenosis and
 sequences, proteins encoded by them and antibodies against them in in diagnosis and treatment of vascular disease caused by
 .;
0
 ·,
 Score 28; DB 4; Length 155;
Pred. No. 2.5e+02;
1; Mismatches 0; Indels
 Length 212;
 M, Ota T, Kawabata A, Sugano S;
 Indels
 Human shear stress-response protein SEQ ID NO: 112.
 Score 28; DB 4; Le
Pred. No. 3.5e+02;
1; Mismatches 0;
 1; Mismatches
 Claim 52; Page 551-552; 678pp; Japanese.
 AAB90806 standard; protein; 212 AA.
 Yoshisue H, Obayashi
skine S, Nakamura Y,
 90.3%;
 02-OCT-2000; 2000WO-JP006840.
 99JP-00280976.
 90.3%;
 Ř
 (first entry)
 (KYOW) KYOWA HAKKO KOGYO
 6; Conservative
 Conservative
 200 LTLKLSK 206
 41
 WPI; 2001-266308/27.
N-PSDB; AAH02929.
 5
 Local Similarity
 Sekine S,
 1 LTLKLSR 7
 Query Match
Best Local Similarity
 |||:|||
35 LTLRLSR
 (NOJI/) NOJIMA H.
 1 LTLKLSR
 Sequence 155 AA;
 arteriosclerosis.
 Sequence 212 AA;
 WO200125427-A1.
 Homo sapiens
 01-OCT-1999;
 12-APR-2001.
 hypertension
 15-JUN-2001
 9
 Nojima H,
 AAB90806;
 Query Match
 Kuga T,
 DNA seg
useful
 RESULT 10
AAB90806
ID AAB90
 Matches
 Matches
888888888888
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Gaps

. 0

Score 28; DB 3; Length 374; Pred. No. 6.5e+02; Mismatches 0; Indels

90.3%;

1; Mismatches

6; Conservative

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1 LTLKLSR

111:111 226 LTLRLSR 232

AAB42328

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Query Match
Best Local Similarity
Matches 6; Conserv
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 which represent the human ORFY open reading frames 1 to 3161. The ORFY sequences have activities such as: cytostatic; hepatotropic; vulnerary; antiparkinsonian; noctropic; neuroprotective; osteopathic; antiparkinsonian; noctropic; neuroprotective; osteopathic; antiparkinsonian; noctropic; antidiabetic; hypotensive; dermatological; immunosuppressant; immunostimulant; advantably immunosuppressant; immunostimulant; cardiant; thrombolytic; coagulant; vasotropic; antidiabetic; hypotensive; cardiant; thrombolytic; coagulant; vasotropic; antidiabetic; hypotensive; cardiant; thrombolytic; coagulant; vasotropic; antidiabetic; hypotensive; cardiant; mutifungal; antirheumatic; antidiframedroy; antidiatectrial; cardiantension; proteins and nucleic acids may be sequences can be used for determining the presence of or predisposition of or preventing or treating pathological conditions associated with an open therapy vectors. The proteins and nucleic acids may be used to treat cancers, proliferative disorders, neurodegenerative disorders, cateloras cancers, proliferative host disease, cardiovascular disease, disorders, systemic lupus erythematosus, severe combined immunodeficiency (SCID), ADDS, viral bacterial or fungal infection, malaria, autoimmune disorders, asthma, allergies, aplastic anaemia, burns, wounds, bone and cartification to the interpretation of antilinged damage, nocturnal haemoglobinizia, and infinite markery disease; to characters and antilities and and antilities and antilities and antilities and antilities and and antilities and antilities and antilities and antilities and and antilities and antilities and antilities and antilities and and antilities and antilities and antilities and antilities and and antilities and antilities and antilities and antilities and and antilities and antilities and antilities and and antilities and and antilities and antilities and and antilities and and antil
 vulnetary; antipsoriatic; antiparkinsonian; notropic; neuroprotective; anticonvulsant; osteopathic; antiarthritic; immunosupressant; cardiant; immunosupressant; cardiant; hypotensive; dermatological; immunosuppressive; antidiabetic; antidiabetic; antianeamic; gene therapy; cancer; prolliferative antithyroid; antianeamic; gene therapy; cancer; prolliferative disorder; hypertension; neurodegenerative disorder; osteoarthritis; graft vs host disease; cardiovascular disease; diabetes mellitus; hypothyroidism; SCID; AIDS; cholesterol ester storage; systemic lupus erythematosus; infection; severe combined immunodeficiency; malaria, autoimmune disorder; asthma; allergy; aplastic anaemia; nocturnal haemoglobinizia; burn; wound;
 NAC74446 to AAC77606 encode the proteins given in AAB40237 to AAB43397
 sone damage; cartilage damage; antiinflammatory disease; coagulation;
 open reading frame; ORFX; detection; cytostatic; hepatotropic;
 Novel nucleic acids and peptides derived from open reading frame X, useful for treating e.g. cancers, proliferative disorders, neurodegenerative disorders and cardiovascular disease.
 Human ORFX ORF2092 polypeptide sequence SEQ ID NO:4184.
 claim 11; Page 3376-3377; 5507pp; English.
 AAB42328 standard; protein; 374 AA.
 02-APR-1999; 99US-0127636P.
05-APR-1999; 99US-0127728P.
30-MAR-2000; 2000US-00540763.
 31-MAR-2000; 2000WO-US008621.
 99US-0127607P
 (first entry)
 thrombosis; contraceptive
 Leach M;
 (CURA-) CURAGEN CORP.
 WPI; 2000-602362/57.
 N-PSDB; AAC76537.
 WO200058473-A2.
 Shimkets RA,
 Homo sapiens
 31-MAR-1999;
 05-CT-2000.
 08-FEB-2001
 AAB42328;
RESULT 11
```

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The present invention describes isolated polynucleotides (A) comprising a sequence expressed at the mRNA level in Jurkat T cells and showing increased enzymatic activity for cleaving and releasing the tumour necrosis factor (TNF) receptor in genetically modified COS-1 cells expressing the receptor. Methods from the present invention can be used to assess a disease condition associated with altered TRNE activity. The polypeptides, polynucleotides and antibodies can be used to decrease or increase signal transduction from a cytokine in a cell. The polypeptides, polynucleotides and antibodies may be used to treat heart failure, cachexia, inflammation, endotoxic shock, arthritis, multiple sclerosis and sepsis, and cancer. The present sequence represents the longest open reading frame encoded by the complementary strand of the AIM2 clone which affects tumour necrosis factor receptor releasing enzyme (TRRB) activity
 ;
0
 Gaps
 Human, Jurkat cell; tumour necrosis factor receptor releasing enzyme TRRE; cytokine; TNF; identification; cytostatic; anti-inflammatory; cardiant; immunomodulator; antiarthritic; antibacterial; cancer; heart failure; cachexia; inflammation; endotoxic shock; arthritis;
 Human Jurkat cell clone 2-9 AIM2 complementary strand ORF protein.
 ;
 Tumor necrosis factor receptor releasing enzyme modulators and
 Length 474;
 Score 28; DB 3; Length 474
Pred. No. 8.4e+02;
1; Mismatches 0; Indels
 Example 5; Page 96-97; 106pp; English.
AAY56509 standard; protein; 474 AA.
 1;
 90.3%;
ilarity 85.7%;
Conservative 1
 99WO-US010793.
 98US-00081385.
 multiple sclerosis; sepsis.
 (first entry)
 (REGC) UNIV CALIFORNIA.
 358 LTLRLSR 364
 WPI; 2000-039067/03.
 Query Match
Best Local Similarity
Matches 6; Conserv
 1 LTLKLSR 7
 N-PSDB; AAZ38863.
 Sequence 474 AA;
 polynucleotides.
 Homo sapiens.
 WO9958559-A2.
 14-MAY-1999;
 14-MAY-1998;
 17-FEB-2000
 18-NOV-1999.
 Gatanaga T,
 AAY56509;
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enhance coagulation; to inhibit thrombosis; and as a contraceptive

Sequence 374 AA;

```
1 LTLKLSR
 US2004025202-A1.
 Sequence 638 AA;
 US2004025202-A1
 Unidentified,
 Unidentified
 05-FEB-2004
 06-MAY-2004
 05-FEB-2004
 Laurie CC,
 plant seed
 Query Match
Best Local S
 ADJ49161;
 (RAVA/)
(SAVA/)
(LEDE/)
(ROGE/)
 (LAUR/)
 Matches
 RESULT 15
 ADJ49161
 ò
 엄
 0;
 Novel recombinant DNA construct comprising a promoter functional in plants operably linked to an oil-associated gene for producing transgenic plant seed.
 The invention relates to a recombinant DNA construct comprising a promoter functional in plants operably linked to an oil-associated gene. The construct is useful for transgent plant seed which has in its genome the construct, that is functional in the plant to transcribe the oil-associated gene. The transgenic plant seed grows into a plant having producing seed oil as compared to wild type. The construct is useful for producing hybrid maize seed. The transgenic plant seed is useful for producing vegetable oil. The present sequence represents the amino acid sequence of an oil-associated gene related protein.
 Gaps
 gene; transgenic; enhanced seed oil; vegetable oil.
 oil-associated gene; transgenic; enhanced seed oil; vegetable oil.
 .
0
 Rogers JA;
 Length 633;
 0; Indels
 Ledeaux JR,
 Score 28; DB 8; I
Pred. No. 1.1e+03;
 Mismatches
 Oil-associated gene related protein #1326.
 related protein #912
 Example 3; SEQ ID NO 1416; 22pp; English.
 Savage T,
 ADJ49412 standard; protein; 633 AA.
 ADJ49826 standard; protein; 638 AA.
 90.3%; Sco.
85.7%; Pred
 15-MAR-2002; 2002US-0365301P.
26-JUN-2002; 2002US-0391786P.
26-JUN-2002; 2002US-0392018P.
 14-MAR-2003; 2003US-00389566
 (first entry)
 ž
 6; Conservative
 Ravanello
 RAVANELLO M.
SAVAGE T.
LEDEAUX J R.
ROGERS J A.
 |||||:|
291 LTLKLTR 297
 Oil-associated gene
 WPI; 2004-142683/14.
 LAURIE C C.
 Best Local Similarity
 1 LTLKLSR 7
 Sequence 633 AA;
 US2004025202-A1
 oil-associated
 Unidentified
 06-MAY-2004
 06-MAY-2004
 ς,
C
 ADJ49412
 ADJ49826;
 (RAVA/)
(SAVA/)
(LEDE/)
(ROGE/)
 Query Match
 (LAUR/)
 Laurie
RESULT 13
 Matches
 ADJ49826
ID ADJ4
XX
AC ADJ4
XX
DT 06-1
XX
DB Oil
XX
KW oil
XX
 ADJ49412
 g
 8
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The invention relates to a recombinant DNA construct comprising a promoter functional in plants operably linked to an oil-associated gene. The construct is useful for transgent plant seed which has in its genome the construct, that is functional in the plant to transcribe the oil-associated gene. The transgenic plant seed grows into a plant having enhanced seed oil as compared to wild type. The construct is useful for producing hybrid maize seed. The transgenic plant seed is useful for producing hybrid maize seed. The transgenic plant seed is useful for producing vegetable oil. The present sequence represents the amino acid sequence of an oil-associated gene related protein.
 Novel recombinant DNA construct comprising a promoter functional in plants operably linked to an oil-associated gene for producing transgenic
 Gaps
 oil-associated gene; transgenic; enhanced seed oil; vegetable oil.
 ..
 Rogers JA;
 Length 638;
 Indels
 Score 28; DB 8; Le:
Pred. No. 1.2e+03;
L; Mismatches 0;
 Ledeaux JR,
 Example 3; SEQ ID NO 1830; 22pp; English.
 Oil-associated gene related protein #661.
 Savage T,
 ADJ49161 standard; protein; 638
 15-MAR-2002; 2002US-0365301P.
26-JUN-2002; 2002US-0391786P.
26-JUN-2002; 2002US-0392018P.
14-MAR-2003; 2003US-00389566
 90.3%;
 15-MAR-2002; 2002US-0365301P.
26-JUN-2002; 2002US-0391786P.
26-JUN-2002; 2002US-0392018P.
 14-MAR-2003; 2003US-00389566.
 (first entry)
 Σ
 Conservative
 Ravanello
 LAURIE C C.
RAVANELLO M.
SAVAGE T.
LEDEAUX J R.
ROGERS J A.
 WPI; 2004-142683/14.
 |||||:|
291 LTLKLTR 297
 7
 Local Similarity
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0

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PA (LAUR/) LAURIE C C.

PA (SAVA) SAVANELLO M.

PA (SAVA) SAVANELLO M.

PA (SAVA) SAVAGE T.

PA (SAVA) ILDEALUX J. R.

PA (ROGE) ROGERS J A.

XX

XX

Novel recombinant DNA construct comprising a promoter functional in proper plants operably linked to an oil-associated gene for producing transgenic plant seed.

XX

Novel recombinant DNA construct comprising a promoter functional in proper plants operably linked to an oil-associated gene for producing transgenic plant seed.

XX

The invention relates to a recombinant DNA construct comprising a promoter functional in plants operably linked to an oil-associated gene.

XX

The invention relates to a recombinant DNA construct comprising a promoter functional in plants operably linked to an oil-associated gene.

CC promoter functional in plants operably linked to an oil-associated gene.

CC promoter functional in the plant to transcribe the oil associated gene. The transgenic plant seed discussed the oil construct is useful for producing hybrid maize seed. The transgenic plant seed is useful for producing vegetable oil. The present sequence represents the amino acid sequence of an oil-associated gene related protein.

SQ Sequence 538 AA;
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Search completed: November 4, 2004, 00:47:44 Job time : 63.3333 secs

|||||:| 291 LTLKLTR 297

1 LTLKLSR 7

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0; Gaps

Query Match 90.3%; Score 28; DB 8; Length 638; Best Local Similarity 85.7%; Pred. No. 1.2e+03; Matches 6; Conservative 1; Mismatches 0; Indels

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November 4, 2004, 00:48:50 ; Search time 72.3333 Seconds (without alignments) 31.376 Million cell updates/sec
 Published Applications AA:*

| cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep:*
2: /cgn2_6/ptodata/2/pubpaa/PCT NEW PUB.pep:*
3: /cgn2_6/ptodata/2/pubpaa/US06_DUBCOMB.pep:*
4: /cgn2_6/ptodata/2/pubpaa/US06_DUBCOMB.pep:*
5: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep:*
6: /cgn2_6/ptodata/2/pubpaa/US07_NEW PUB.pep:*
7: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep:*
8: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep:*
9: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep:*
10: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*
11: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*
11: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*
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12: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*
13: /cgn2_6/ptodata/2/pubpaa/US106_PUBCOMB.pep:*
14: /cgn2_6/ptodata/2/pubpaa/US106_PUBCOMB.pep:*
15: /cgn2_6/ptodata/2/pubpaa/US106_PUBCOMB.pep:*
16: /cgn2_6/ptodata/2/pubpaa/US106_PUBCOMB.pep:*
17: /cgn2_6/ptodata/2/pubpaa/US106_PUBCOMB.pep:*
18: /cgn2_6/ptodata/2/pubpaa/US106_PUBCOMB.pep:*
19: /cgn2_6/ptodata/2/pubpaa/US106_NEW_PUB.pep:*
19: /cgn2_6/ptodata/2/pubpaa/US106_NEW_PUB.pep:*
19: /cgn2_6/ptodata/2/pubpaa/US106_NEW_PUB.pep:*
19: /cgn2_6/ptodata/2/pubpaa/US106_NEW_PUB.pep:*
19: /cgn2_6/ptodata/2/pubpaa/US106_NEW_PUB.pep:*
19: /cgn2_6/ptodata/2/pubpaa/US106_NEW_PUB.pep:*
GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
 Total number of hits satisfying chosen parameters:
 1370721 seqs, 324215800 residues
 Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
 OM protein - protein search, using sw model
 BLOSUM62
Gapop 10.0 , Gapext 0.5
 Minimum DB seq length: 0
Maximum DB seq length: 2000000000
 US-09-712-819D-13
31
1 LTLKLSR 7
 Title:
Perfect score:
 Scoring table:
 Database :
 Sequence:
 Searched:
 Run on:
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

|     | Description              | Description | Ce 5663.           | 1774               | 12021              | 2240               | Semience Fore An   | de 'cecc portonional | acqueince 140, App                       | sequence 148, App | Sequence 11797, A   | Seguence 14521. A   | Segmence 14213 A    | Seminary and 14987  | Sometimes and and and | de late Talo, Ap   | Sequence 12088, A   |
|-----|--------------------------|-------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------------------|------------------------------------------|-------------------|---------------------|---------------------|---------------------|---------------------|-----------------------|--------------------|---------------------|
|     | ID                       |             | US-10-369-493-5663 | US-10-389-566-1774 | US-10-389-566-1393 | US-10-389-566-2249 | US-10-369-493-5945 | 118-09-752-639-148   | TTC - 00 - 00 - 00 - 00 - 00 - 00 - 00 - | US-09-964-196-148 | US-10-369-493-11797 | US-10-369-493-14521 | US-10-369-493-14213 | US-10-369-493-14987 | 118-10-389-566-1416   | OT# - 000 00 00 00 | US-10~369-493-12088 |
|     | DB                       |             | 14                 | 15                 | 15                 | 15                 | 14                 | σ                    | o                                        | ,                 | 4                   | 14                  | 14                  | 14                  | נ                     | 1                  | 14                  |
|     | Query<br>Match Length DB |             | 382                | 638                | 641                | 641                | 726                | 474                  | 474                                      | * *               | 629                 | 630                 | 633                 | 633                 | 633                   |                    | 638                 |
| 9/0 | Query                    | 1           | 100.0              | 93.5               | 93.5               | 93.5               | 93.5               | 90.3                 | 00                                       |                   | 90.3                | 90.3                | 90.3                | 90.3                | 90.3                  |                    | 90.3                |
|     | Score                    |             | 31                 | 29                 | 29                 | 29                 | 29                 | 28                   | 30                                       | 9 0               | 28                  | 28                  | 28                  | 28                  | 28                    |                    | 78                  |
|     | Result<br>No.            |             | н                  | 2                  | ო                  | 4                  | S                  | 9                    | 7                                        | . (               | ю .                 | ກ                   | 10                  | 11                  | 12                    | ,                  | .13                 |

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Gaps

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100.0%; Score 31; DB 14; Length 382; 100.0%; Pred. No. 1.3e+02; cive 0; Mismatches 0; Indels (

Query Match
Best Local Similarity 100.
Matches 7; Conservative

RESULT 2 US-10-389-566-1774 ; Sequence 1774, Application US/10389566

73 LTLKLSR 79

g S

7

1 LTLKLSR

| Sequence 1165, Ap Sequence 1810, App Sequence 1810, Appl Sequence 131, Appl Sequence 131, Appl Sequence 131, Appl Sequence 131, Appl Sequence 13072, Sequence 161373, Sequence 161373, Sequence 161373, Sequence 161373, Sequence 16201, A Sequence 1866, Appl Sequence 1866, Appl Sequence 1847, Appl Sequence 18705, Sequence 18705, Sequence 18705, Sequence 189705, Sequence 189705, Sequence 189709, Sequence 189709, Sequence 189709, Sequence 189709, Sequence 189709, Sequence 18900, Sequence 189709, Sequence 18900, | IN PLANTS FOR PRODUCTION OF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ALIGNMENTS 369493  OF MICROBIAL PROTEINS H IMPROVED PROPERTIES 10/369,493 8 6 7360,039                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 638<br>115538<br>12522<br>2692<br>6692<br>61112<br>11123<br>11123<br>1123<br>1123<br>1132<br>114<br>1153<br>1153<br>1153<br>1153<br>1153<br>1153<br>1153                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | RESULT 1  Us.10.369-493-5663  Sequence 5663, Application US/10369493  Publication No. US20030233675A1  GENERAL INFORMATION: APPLICANT: Gao, Yongwei APPLICANT: Hinkle, Gregory J. APPLICANT: Gladma, Barry S. APPLICANT: Goldman, Barry S. APPLICANTON: PLANTS WITH IMPR. FILLE OF INVENTION: PLANTS WITH IMPR. CURRENT APPLICATION NUMBER: US/10/369 CURRENT APPLICATION NUMBER: US 60/360, 0. PRIOR APPLICATION NUMBER: US 60/360, 0. FRIOR FILLING DATE: 2003-02-21  NUMBER OF SEQ ID NOS: 47374  SEQ ID NO 5663  ITUPE: PRI TUPE: PRI TUPE: PRI TUPE: PRI SEQ ID NOS: 47374  SEQ ID NOSE 63  ITUPE: PRI TUPE:                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 663<br>Appli<br>O. US2(<br>MATION<br>MATION<br>MATION<br>Hinkle,<br>Slater,<br>Slater,<br>Slater,<br>Slater,<br>Slater,<br>Chen, Mation<br>CE 130N<br>CE 130N<br>CE 130N<br>CE 170N<br>CE 170N |
| 00000000000000000000000000000000000000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ULT 1 10-56-493-5663 40-10-5663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 40-11-6663 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 41111111122222222222222222222222222222                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | REGULT 1 Sequence; Sequence; Publicati; GENERAL II GENE                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

```
ORGANISM: Caenorhabditis elegans
US-10-369-493-5945
 Sinorhizobium meliloti
 93.5%;
FILE REFERENCE: 38-77 (52900) D
 93.5
Best Local Similarity 85.7
Matches 6; Conservative
 6; Conservative
 ||||:||
512 LTLKISR 518
 ||:||||
291 LTMKLSR 297
 Query Match
Best Local Similarity
Matches 6; Conserva
 1 LTLKLSR 7
 1 LTLKLSR 7
 ; TYPE: PRT
; ORGANISM: Sino:
US-10-389-566-2249
 US-09-752-639-148
 ŏ
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 g
 | JERUBACH INFORMATION:
| APPLICANT: Monsanto Technology, LLC
| APPLICANT: Monsanto Technology, LLC
| APPLICANT: Laurie, Cathy C
| TITLE OF INVENTION: Nucleic Acid Molecules Associated with Oil in Plants
| FILE REFERENCE: 38-77(52900)
| CURRENT APPLICATION NUMBER: US 10/365,301
| PRIOR APPLICATION NUMBER: US 60/365,301
| PRIOR APPLICATION NUMBER: US 60/391,786
| PRIOR FILING DATE: 2002-03-15
| PRIOR FILING DATE: 2002-66-25
| PRIOR FILING DATE: 2002-66-26
| NUMBER OF SEQ ID NOS: 2459
| SOFTWARE: PatentIn version 3.2
| LENGTH: 641
 GENERAL INFORMATION:

APPLICANT: Monsanto Technology, LLC
APPLICANT: Laurie, Cathy C
TITLE OF INVENTION: Nucleic Acid Molecules Associated with Oil in Plants
TITLE OF INVENTION: Nucleic Acid Molecules Associated with Oil in Plants
FILE PEPERENCE: 38-77 (5.200) D
CURRENT APPLICATION NUMBER: US/10/389,566
CURRENT PILING DATE: 2003-03-31
PRIOR APPLICATION NUMBER: US 60/365,301
PRIOR APPLICATION NUMBER: US 60/391,786
PRIOR FILING DATE: 2002-06-25
PRIOR FILING DATE: 2002-06-26
NUMBER OF SEQ ID NOS: 2459
SEQ ID NOS: 2459
SEQ ID NO 1774
LENGTH: 638
 ö
 o;
 Sequence 2249, Application US/10389566
; Publication No. US20040025202A1
; GENERAL INFORMATION:
; APPLICANT: Monsanto Technology, LLC
; APPLICANT: Laurie, Cathy C
; TITLE OF INVENTION: Nucleic Acid Molecules Associated with Oil in Plants
 Gaps
 Gaps
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0
 Score 29; DB 15; Length 641;
Pred. No. 6.4e+02;
1; Mismatches 0; Indels
 Score 29; DB 15; Length 638;
Pred. No. 6.3e+02;
1; Mismatches 0; Indels
 Sequence 1393, Application US/10389566 Publication No. US20040025202A1 GENERAL INFORMATION:
 ; TYPE: PRT
; ORGANISM: Geobacter metallireducens
US-10-389-566-1774
 ORGANISM: Sinorhizobium meliloti
US-10-389-566-1393
 93.5%;
 Query Match 93.5%;
Best Local Similarity 85.7%;
Matches 6; Conservative
 Publication No. US20040025202A1
 Query Match
Best Local Similarity 85.7
Matches 6; Conservative
 ||:||||
291 LTMKLSR 297
 291 LTMKLSR 297
 RESULT 4
US-10-389-566-2249
 RESULT 3
US-10-389-566-1393
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us-09-712-819d-13.open.rapb

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Sequence 1797, Application US/10369493

Sequence 1797, Application US/10369493

Publication No. US20030233675A1

GENERAL INPORMATION:

APPLICANT: Cao, Yongwei

APPLICANT: Slater, Steven C.

APPLICANT: Glater, Glate
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 Gaps
 Gaps
 ..
 0;
 90.3%; Score 28; DB 14; Length 629; 85.7%; Pred. No. 1e+03; iive 1; Mismatches 0; Indels
 90.3%; Score 28; DB 9; Length 474; 85.7%; Pred. No. 7.7e+02;
 0; Indels
 Pred. No. 7.7e+02;
1; Mismatches 0
 41,386
ER: 22000-20577.21
 PCT/US99/10793
 CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US99/10793
FILING DATE: APPLICATION NUMBER: 09/081,385
FILING DATE: 05/081,385
FILING DATE: 05/08-10797
FILING DATE: 05/08-10797
APPLICATION NUMBER: 06/030,761
FILING DATE: 06-NOV-1996
ATORNEY/ABONT INFORMATION:
NAME: W1, FRANK
REGISTRATION NUMBER: 41,386
REBERBENG-LOCKET NUMBER: 22000-2:
TELEPHONE: 650-813-5600
TELEFRAX: 650-494-0792
TELEFRAX: 706141
INFORMATION FOR SEQ ID NO: 148:
SEQUENCE CHARACTERISTICS:
LENGRIC Amino acids

"TELENGER AND ACID ACIDS
"TELER AND ACID ACIDS
 APPLICATION NUMBER: US/09/984,198
 ; TYPE: PRT
; ORGANISM: Agrobacterium tumefaciens
US-10-369-493-11797
 LENGTH: 474 amino acids
TYPE: amino acid
STRANDEDNESS: single
 6; Conservative
 Query Match
Best Local Similarity 85.7
Matches 6; Conservative
 TOPOLOGY: linear
MOLECULE TYPE: protein
FRAGMENT TYPE: internal
 358 LTLRLSR 364
 291 LTLKLTR 297
 Best Local Similarity
Matches 6; Conserv
 1 LTLKLSR 7
 1 LTLKLSR 7
 FILING DATE:
CLASSIFICATION:
 US-10-369-493-11797
 US-09-984-198-148
 Query Match
 RESULT
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 g
 Sequence 148, Application US/09984198

Sequence 148, Application US/09984198

Patent No. US20020106679A1

GENERAL INFORMATION:
APPLICANT: Gatanaga, T.
APPLICANT: Gatanaga, T.
APPLICANT: Granger, G.A.
ITILE OF INVENTION: Factor Receptor Releasing Enzyme Activity, and Methods
ITILE OF INVENTION: Of Use Thereof
ITILE OF INVENTION: Of Use Thereof
CORRESPONDENCES: 154

NONRER OF SEQUENCES: 154

NORRESPONDENCE ADDRESS:
ADDRESSEE: MORRISON & FOERSTER
STREET: 755 PAGE MILL ROAD
STREET: 755 PAGE MILL ROAD
STREET: 755 PAGE MILL ROAD
STREET: 75 PAGE MILL ROAD
STREET: 7
 ö
 Gaps
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 Score 28; DB 9; Length 474;
Pred. No. 7.7e+02;
1; Mismatches 0; Indels
 COMPUTRY: USA
ZIP: 94304-1018
COMPUTRY: READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows
SOFTWARE: FastSEQ for Windows Version 2.0b
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/752,639
 APPLICATION NOTE.

FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US99/10793
FILING DATE:
FILING DATE:
APPLICATION NUMBER: 09/081,385
FILING DATE:
APPLICATION NUMBER: 08/964,747
FILING DATE:
APPLICATION NUMBER: 06/030,761
FILING DATE: 06-NOV-1996
ATTORNEY/AGENT INFORMATION:
NAME: WU, FTAME
REGISTRATION NUMBER: 22000-20577.21
FILING DATE: 06-NOV-1966
ATTORNEY/AGENT INFORMATION:
TELEPHONE 650-813-5600
TELEFAX: 650-494-0792
TELEPHONE: 650-813-560
TELEFAX: 650-813-560
 COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows
SOFTWARE: FastSEQ for Windows Version 2.0b
CURRENT APPLICATION DATA:
 90.3%;
 Query Match
Best Local Similarity 85...
hea 6; Conservative
 TOPOLOGY: linear
MOLECULE TYPE: protein
FRAGMENT TYPE: internal
US-09-752-639-148
 |||:|||
358 LTLRLSR 364
 1 LTLKLSR 7
Palo Alto
 US-09-984-198-148
 RESULT 7
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Sequence 12088, Application US/10369493
Publication No. US20030233675A1
GENERAL INFORMATION:
 Sequence 1416, Application US/10389566
Publication No. US20040025202A1
GENERAL INFORMATION:
APPLICANT: Monsanto Technology, LLC
) ORGANISM: Agrobacterium tumefaciens US-10-389-566-1416
) ORGANISM: Agrobacterium tumefaciens US-10-369-493-14987
 Best Local Similarity 85.7
Matches 6; Conservative
 291 LTLKLTR 297
 291 LTLKLTR 297
 1 LTLKLSR 7
 1 LTLKLSR 7
 RESULT 13
US-10-369-493-12088
 RESULT 12
US-10-389-566-1416
 SEQ ID NO 14987
LENGTH: 633
 Query Match
 TYPE: PRT
 ð
 d
 ò
 Sequence 14213, Application US/10369493

Sequence 14213, Application US/200023675A1

Sequence 14213, Application No. US2000023675A1

GENERAL INFORMATION:

APPLICANT: Cao, Yongwei

APPLICANT: Gladman, Barry

APPLICANT: Gladman, Barry

APPLICANT: Gladman, Barry

TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF

TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF

TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF

TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF

TITLE OF INVENTION NUMBER: US/10/369,493

CURRENT APPLICATION NUMBER: US 60/360,039

PRIOR FILING DATE: 2002-02-21

NUMBER OF SEQ ID NOS: 47374

SEQ ID NO 14213
 Sequence 14521, Application US/10369493

Publication No. US2003023367541

GENERAL INFORMATION:

APPLICANT: Gao, Yongwei

APPLICANT: Glater, Steven C.

APPLICANT: Glater, Steven C.

APPLICANT: Glater, Stater, Steven C.

APPLICANT: Glater, US Glater,
 0
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 Score 28; DB 14; Length 633;
Pred. No. 1e+03;
1; Mismatches 0; Indels
 90.3%; Score 28; DB 14; Length 630;
85.7%; Pred. No. 1e+03;
live 1; Mismatches 0; Indels
 ; Sequence 14987, Application US/10369493; Publication No. US20030233675A1; GENERAL INFORMATION:
 TYPE: PRT / ORGANISM: Agrobacterium tumefaciens US-10-369-493-14213
) ORGANISM: Agrobacterium tumefaciens US-10-369-493-14521
 90.3%;
 APPLICANT: Cao, Yongwei
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
 Query Match 90.3
Best Local Similarity 85.7
Matches 6; Conservative
 6; Conservative
 291 LTLKLTR 297
 |||||:|
291 LTLKLTR 297
 1 LTLKLSR 7
 Query Match
Best Local Similarity
Matches 6; Conserv
 1 LTLKLSR 7
 US-10-369-493-14987
 RESULT 10
US-10-369-493-14213
US-10-369-493-14521
 RESULT 11
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```
APPLICANT: Cao, Yongwei
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Slater, Steven C.
APPLICANT: Gldman, Barry S.
APPLICANT: Chen, Xianfeng
TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
FILE REFERENCE: 38-10(52052)8
CURRENT APPLICATION NUMBER: US/10/369,493
APPLICANT: Goldman, Barry S.
APPLICANT: Chen, Xianfeng
TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
FILE REFERENCE: 38-10 (52052) B
CURRENT APPLICATION NUMBER: US/10/369,493
CURRENT FILING DATE: 2003-02-28
PRIOR FILING DATE: 2003-02-28
PRIOR FILING DATE: 2002-02-21
NUMBER OF SEQ ID NOS: 47374
 APPLICANT: Montailed recuired of the carbon
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0
 90.3%; Score 28; DB 15; Length 633; 85.7%; Pred. No. 1e+03;
 Query Match 90.3%; Score 28; DB 14; Length 633; Best Local Similarity 85.7%; Pred. No. 1e+03; Matches 6; Conservative 1; Mismatches 0; Indels
 1; Mismatches
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LENGTH: 638
 엄
 à
 Sequence 1165, Application US/10389566

Publication No. US20040025202A1

GENERAL INPORMATION:

APPLICANT: Laurie, Cathy C

TITLE OF INVENTION: Nucleic Acid Molecules Associated with Oil in Plants

TITLE OF INVENTION: Nucleic Acid Molecules Associated with Oil in Plants

FILE REFERENCE: 38-77(5290) D

CURRENT APPLICATION NUMBER: US 60/365,301

PRIOR FILING DATE: 2002-03-15

PRIOR FILING DATE: 2002-03-15

PRIOR FILING DATE: 2002-06-26

PRIOR FILING DATE: 2002-06-26

PRIOR FILING DATE: 2002-06-26

PRIOR FILING DATE: 2002-06-26

NUMBER OF SEQ ID NOS: 2459

SSCYIN NO 1165
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0
 RESULT 15
US-10-380-566-1830

US-10-380-566-1830

Sequence 1830, Application US/10389566

Publication No. US20040025202A1

GENERAL INFORMATION:

APPLICANT: Monsanto Technology, LLC

TITLE OF INVENTION: Nucleic Acid Molecules Associated with Oil in Plants

TITLE OF INVENTION: Nucleic Acid Molecules Associated with Oil in Plants

TITLE OF INVENTION: Nucleic Acid Molecules Associated with Oil in Plants

CURRENT APPLICATION NUMBER: US 60/365,301

PRIOR PILING DATE: 2003-03-15

PRIOR PILING DATE: 2002-06-25

PRIOR PILING DATE: 2002-06-26

PRIOR PILING DATE: 2002-06-26

PRIOR PILING DATE: 2002-06-26

NUMBER OF SEQ ID NOS: 2459

SOFTWARE: Patentin version 3.2

SEQ ID NO 1830
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 Score 28; DB 14; Length 638;
Pred. No. 1e+03;
1; Mismatches 0; Indels
 Query Match

90.3%; Score 28; DB 15; Length 638;
Best Local Similarity 85.7%; Pred. No. 1e+03;
Matches 6; Conservative 1; Mismatches 0; Indels
CURRENT FILING DATE: 2003-02-28
PRIOR APPLICATION NUMBER: US 60/360,039
PRIOR FILING DATE: 2002-02-21
NUMBER OF SEQ ID NOS: 47374
SEQ ID NO 12088
LENGTH: 638
 90.3%;
 ; ORGANISM: Mesorhizobium loti
US-10-369-493-12088
 TYPE: PRT
ORGANISM: Mesorhizobium loti
 Query Match 90.3
Best Local Similarity 85.7
Matches 6; Conservative
 291 LTLKLTR 297
 291 LTLKLTR 297
 1 LTLKLSR 7
 1 LTLKLSR 7
 RESULT 14
US-10-389-566-1165
 US-10-389-566-1165
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| J. LENGTH: 638 | J. ENGTH: 638 | J. TYPE: PRT | J. CNGANISM: Rhizobium leguminosarum | J. ORGANISM: Rhizobium leguminosarum | J. ORGANISM: Rhizobium leguminosarum | US-10-389-566-1830 | Query Match | J. Mismatch | J. Mismatches | J. Conservative | J. Mismatches | J. Infals | J. Mismatches | J. Mismatches | J. Infals | J. Mismatches | J. Infals | J. Mismatches | J. Infals | J. Mismatches |
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Appli
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 Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
 Description
 Sequence 5 Sequence 6 Sequence 6 Sequence 6 Sequence 6 Sequence 6 Sequence 6 Sequence 7
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 Sequence
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GenCore version 5.1.6
(c) 1993 - 2004 Compugen Ltd.
 Total number of hits satisfying chosen parameters:
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 US-09-040-216-54
US-09-187-859-636
US-09-187-859-650
 478139 seqs, 66318000 residues
 SUMMARIES
 Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
 - protein search, using sw model
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Gapop 10.0 , Gapext 0.5
 US-09-712-819D-12
 Query
Match Length
 1 FTLEISR
 November
 seq length: 0 seq length: 7
 Title:
Perfect score:
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 Score
 OM protein
 Minimum DB
Maximum DB
 Sequence:
 Searched:
 Database
 Run on:
 Result
No.
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 Sequence 57, Sequence 58, Sequence 59, Sequence 2, As Sequence 2, As Sequence 2, As Sequence 2, As Sequence 3,
 Gaps
 Sequence
Sequence
Sequence
 Sequence
Sequence
Sequence
Sequence
 Sequence Sequence
 Sequence
 Sequence
 ;
0
 APPLICANT: Lichenstein, Henri
APPLICANT: Lichenstein, Henri
APPLICANT: Lyons, David
APPLICANT: Wurfel, Mark
APPLICANT: Wurfel, Mark
APPLICANT: Wurfel, Samuel
TITLE OF INVENTION: Afamin: A Human Serum Albumin-Like
TITLE OF INVENTION: Protein
NUMBER OF SEQUENCES: 33
CORRESPONDENCES: 33
CORRESPONDENCES: Amgen Center, Patent Operations/RRC
 a Similarity 71.4%; Score 24; DB 1; Length 7; Similarity 71.4%; Pred. No. 3.8e+05; 5; Conservative 0; Mismatches 2; Indels
 STATE: ...
COUNTRY: U.S.
ZIP: 91320-1789

COMPUTER: TEADABLE PORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IRM PC compatible
COMPUTER: IRM PC compatible
COMPUTER: IRM PC compatible
COUNTRY: Date: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
CURRENT APPLICATION DATA:
CURRENT APPLICATION UNBER: US/08/222,619
FILING DATE:
COUNTRY OF SEQUENCE CHARACTERISTICS:
FIRM DATE:
COUNTRY OF SEQUENCE CHARACTERIST
 ADDRESSEE: Amgen Center, Patent Operations/RRC
STREET: 1840 DeHavilland Drive
CITY: Thousand Oaks
US-09-522-433B-12
US-09-839-542B-636
US-09-939-542B-650
US-09-139-41-2
US-08-136-743B-6
US-08-136-743B-33
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US-08-136-743B-54
US-08-136-743B-55
US-08-136-743B-56
US-08-136-743B-59
 ALIGNMENTS
 RESULT 2
PCT-US95-04075-8
; Sequence 8, Application PC/TUS9504075
; GENERAL INFORMATION:
 Sequence 8, Application US/08222619
Patent No. 5652352
GENERAL INFORMATION:
 3Y: unknown
TYPE: peptide
 FTLEISR
 FTFEYSR
 US-08-222-619-8
 ; MOLECULE T:
US-08-222-619-8
 Query Match
Best Local S
 Н
 Best Loc
Matches
 RESULT 1
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0
; Sequence 21, APP.
; Patent No. 5552352
; Fatent No. 5552352
; GENERAL INFORMATION:
 APPLICANT: Lichenstein, Henri
 APPLICANT: Lyons, David
 APPLICANT: Wright, Mark
; APPLICANT: Wright, Samuel
; TITLE OF INVENTION: Afamin: A Human Serum Albumin-Like
; TITLE OF INVENTION: Protein
; VUMBER OF SEQUENCES: 33
; CORRESPER: Angen Center, Patent Operations/RRC
 ADDRESSEE: Angen Center, Patent Operations/RRC
 RESULT 5

PCT-10595-04075-21

Sequence 21, Application PC/TUS9504075

GENERAL INFORMATION:

APPLICANT: AMGEN INC.

TITLE OF INVENTION: Protein

NUMBER OF SEQUENCES: 33

CORRESPONDENCE ADDRESS:

ADDRESSE: AMMGEN Center, Patent Operations/RRC

STREET: 1840 DeHavilland Drive

CITY: Thousand Oaks

STATE: California

CONTINE: U.S.

ZIP: 91220-1789

COMPUTER: READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC Compatible

OMPUTER: BATEN IN READABLE FORM:

MEDIUM TYPE: PatentIn Release #1.0, Version #1.25

SOFFWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION UNDER: PCT/US95/04075

FILNG DATE:

 57.6%; Score 19; DB 1; Length 6; 66.7%; Pred. No. 3.8e+05;
 0; Mismatches
 21:
 CLASSIFICATION:
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
 4; Conservative
 6 amino acids
 TOPOLOGY: unknown
MOLECULE TYPE: peptide
US-08-222-619-21
 unknown
 TYPE: amino acid
STRANDEDNESS: unk
 Query Match
Best Local Similarity
Matches 4; Conserv
 1 FTLEIS 6
 1 FTFEYS 6
 LENGTH:
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 Gaps
 Gaps
 GENERAL INFORMATION:
APPLICANT: Vlaams Interuniversitair Instituut voor Biotechnol
APPLICANT: Vlaams Interuniversitair Instituut voor Biotechnol
APPLICANT: Guy derome Corneel Bauw
APPLICANT: Guy derome Corneel Bauw
APPLICANT: Jens Ostergaard
APPLICANT: Marc Charles Ernest Van Montagu
APPLICANT: Marc Charles Ernest Van Montagu
TITLE OF INVENTION: PRODUCTION OF ASCORBIC ACID IN PLANTS
FILE REFERRINCE: DBCLES, 001APC
CURRENT FILING DATE: 2000-02-15
PRIOR FILING DATE: 1997-05-07
NUMBER OF SEQ ID NOS: 15
SOFTWARE FESTSEQ for Mindows Version 4.0
 ö
 APPLICANT: AMGEN INC.

TITLE OF INVENTION: Afamin: A Human Serum Albumin-Like
TITLE OF INVENTION: Protein
NUMBER OF SEQUENCES: 33
CORRESPONDENCES: 33
CORRESPONDENCE ADDRESS:
ADDRESSEE: Amgen Center, Patent Operations/RRC
STREET: 1840 DeHavilland Drive
CITY: Thousand Oaks
STATE: California
CONTRY: Thousand Oaks
STATE: 01320-1789
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
RILING DATE:
FILING DATE:
 60.6%; Score 20; DB 4; Length 7; 50.0%; Pred. No. 3.8e+05; ive 3; Mismatches 0; Indels
 Score 24; DB 5; Length 7; Pred. No. 3.8e+05; 0; Mismatches 2; Indels
 Sequence 6, Application US/09423468A Patent No. 6469149
 Query Match 72.7%;
Best Local Similarity 71.4%;
Matches 5; Conservative C
 TYPE: PRT
ORGANISM: Brassica oleracea
 Query Match
Best Local Similarity 5v..
3; Conservative
 CLASSIFICATION:
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
 TYPE: amino acid
STRANDEDNESS: unknown
 7 amino acids
 MOLECULE TYPE: peptide
 unknown
 1 FTLEISR 7
 1 FTFEYSR 7
 2 TLEISR 7
 |:|:|:
TIELSK 7
 TOPOLOGY:
 US-09-423-468A-6
 RESULT 4
US-08-222-619-21
 PCT-US95-04075-8
 US-09-423-468A-6
 LENGIH:
 SEQ ID NO 6
LENGTH: 7
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RESULT 3

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Gaps

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Gaps
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0
 FEATURE:
OTHER INFORMATION: Description of Artificial Sequence:
OTHER INFORMATION: Ribonucleotide reductase inhibitor peptide
 GENERAL INFORMATION:
APPLICANT: Johnson, William T.
APPLICANT: Jakubu-Madus, Patima E.
TITLE OF INVENTION: BIOLOGICALLY ACTIVE FRAGWENTS OF
TITLE OF INVENTION: BIOLOGICALLY ACTIVE FRAGWENTS OF
TITLE OF INVENTION: GLUCAGON-LIKE INSULINOTROPIC PEPTIDE
VORRESPONDENCE ADDRESS:
ADDRESSEE: Eli Lilly and Company/RSM
STREET: Lilly Corporate Center
CITY: Indianapolis
STREET: IN
 57.6%; Score 19; DB 3; Length 7; 60.0%; Pred. No. 3.8e+05; live 2; Mismatches 0; Indels
 DB 1; Length 6;
 COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/297,731
FILING DATE:
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Maciak, Ronald S: REGISTRATION NUMBER: 35,262
 ; OTHER INFORMATION: residue 1: MOD_RES: ACETYLATION US-09-040-216-28
 FILE REFERENCE: 9596-63U1
CURRENT APPLICATION NUMBER: US/09/040,216
CURRENT FILING DATE: 1990-01-17
EARLIER PEPLICATION NUMBER: 08/919,748
EARLIER PILING DATE: 1997-08-28
EARLIER APPLICATION NUMBER: 60/025,146
EARLIER FILING DATE: 1996-08-30
NUMBER OF SEQ ID NOS: 61
SOFTWARE: PATENTIN VET. 2.0
SEQ ID NO 28
 TITLE OF INVENTION: RIBONUCLEOTIDE REDUCTASE
 54.5%; Score 18;
 Sequence 4, Application US/08297731
Patent No. 5574008
 REFERENCE/DOCKET NUMBER: XST TELECOMMUNICATION INFORMATION: TELEPHONE: 317-276-1664
TELEFAX: 317-277-1917
 ORGANISM: Artificial Sequence
 ZIP: 46285
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
 Query Match
Best Local Similarity 60.0
Matches 3; Conservative
 INFORMATION FOR SEQ ID NO:
 SEQUENCE CHARACTERISTICS:
 6 amino acids
 single
 TOPOLOGY: linear
MOLECULE TYPE: peptide
 amino acid
 1 FILEI 5
 1 FTLDL 5
 USA
 STRANDEDNESS:
 US-08-297-731-4
 COUNTRY:
 US-08-297-731-4
 TYPE: PRT
 Query Match
 LENGTH:
 RESULT 8
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 g
 US-08-136-743B-55

Sequence 55, Application US/08136743B

Patent No. 5493063

GENERAL INFORMATION:

APPLICANT: Barry S. Cooperman, Harvey Rubin,

APPLICANT: Jerome Salem, and Alison L. Fisher

ITILE OF INVENTION: "Plasmodium falciparum Ribonu-
TITLE OF INVENTION: Thereof"

TITLE OF INVENTION: Thereof"

TITLE OF INVENTION: Thereof"

TITLE OF INVENTION: Thereof"

MUMBER OF SEQUENCES: 67

CORRESPONDENCE ADDRESS:

ADDRESSEE: The University of Pennsylvania

STRRET: 3700 Market Street

CITY: Philadelphia

CITY: Philadelphia

STRATE: Pennsylvania

COUNTRY: U.S.A.
 .
0
 ö
 Sequence 28, Application US/09040216
Patent No. 603042
GENERAL INFORMATION:
APPLICANT: COOPERMAN, ET AL., BARRY
TITLE OF INVENTION: PEPTIDES, PEPTIDE ANALOGS, PEPTIDOMIMETICS, AND OTHER
TITLE OF INVENTION: SMALL MOLECULES USERUL FOR INHIBITING THE ACTIVITY OF
 Gaps
 Gaps
 ;
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 Score 19; DB 5; Length 6;
Pred. No. 3.8e+05;
0; Mismatches 2; Indels
 0; Indels
 57.6%; Score 19; DB 1; Length 7; 60.0%; Pred. No. 3.8e+05;
 57.6%; Scor.
66.7%; Pred. No. s...
0; Mismatches
 ZIP: 19104-3246
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 720 Kb
 2; Mismatches
 COMPUTER: IBM PS/2
OPERATING SYSTEM: MS-DOS
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/136,743B
FILING DATE: 10/14/93
CLASSIFICATION: 435
 NAME: Monaco, Daniel A.
REGISTRATION NUMBER: 30,480
REFERENCE/DOCKET NUMBER: 3957
TELECOMMUNICATION INFORMATION:
TELEPHONE: (215) 568-8383
TELEX: No. 545906a
INFORMATION FOR SED ID NO: 55:
SEQUENCE CHARACTERISTICS:
LENGTH: 7 amino acids
 ATTORNEY/AGENT INFORMATION:
NAME: Monaco, Daniel A.
 Query Match
Best Local Similarity 66.,
 Query Match
Best Local Similarity 60.0
The 3; Conservative
; TOPOLOGY: unknown
; MOLECULE TYPE: peptide
PCT-US95-04075-21
 amino acid
 1 FTLEIS 6
 1 FTFEYS 6
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FTLDL 5
 FTLEI 5
 US-08-136-743B-55
 RESULT 7
US-09-040-216-28
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OTHER INFORMATION: Description of Artificial Sequence: Synthetic OTHER INFORMATION: Peptide
 FEATURE:
COTHER INFORMATION: Description of Artificial Sequence: Synthetic
FEATURE INFORMATION: Peptide
CS-09-657-332A-6
 Sequence Application PC/TUS9510793

Sequence Application PC/TUS9510793

GENERAL INFORMATION:
APPLICANT: Johnson, William T.
APPLICANT: Johnson, William T.
TITLE OF INVENTION: BIOLOGICALLY ACTIVE FRACMENTS OF
TITLE OF INVENTION: GLUCAGON-LIKE INSULINOTROPIC PEPTIDE
TITLE OF INVENTION: GLUCAGON-LIKE INSULINOTROPIC PEPTIDE
CORRESPONDENCE ADDRESS:
ADDRESSEE: Eli Lilly and Company/RSM
STREET: Lilly Corporate Center
CITY: Indianapolis
STATE: IN
COUNTRY: USA
 54.5%; Score 18; DB 4; Length 6; 50.0%; Pred. No. 3.8e+05; ive 2; Mismatches 1; Indels
 Score 18; DB 4; Length 6;
Pred. No. 3.8e+05;
2; Mismatches 1; Indels
 APPLICANT: Bridon, Dominique P.
APPLICANT: Bridon, Dominique P.
APPLICANT: L'Archeveque, Benoit
APPLICANT: Bridon, Darren L.
APPLICANT: Holmes, Darren L.
APPLICANT: Leblanc, Anouk
APPLICANT: St. Pierre, Serge
TITLE OF INVENTION: LONG LABING INSULINOTROPIC PEPTIDES
FILE REFERENCE: 500862001610
 FILE KEFEKENCE : 500-62/2012.10 (CURRENT APPLICATION NUMBER: US/09/876,388 (CURRENT FILING DATE: 2001-09-24 PRIOR APPLICATION NUMBER: 09/623,618 PRIOR FILING DATE: 2000-09-05 PRIOR FILING DATE: 2000-05-17 PRIOR FILING DATE: 1999-10-15 PRIOR FILING DATE: 1999-10-15 PRIOR FILING DATE: 1999-05-17 PRIOR FILING DATE: 1999-05-17 PRIOR FILING DATE: 1999-05-17 PRIOR FILING DATE: 1999-05-17 SPRIOR PRIOR PRIOR DATE: 1999-05-17 SPRIOR PRIOR PRIOR DATE: 1999-05-17 SPRIOR DATE: 1999-05-17 SPRIOR PRIOR DATE: 1999-05-17 SPRIOR DATE: 1999-05-17 SPRIOR PRIOR DATE: 1999-05-17 SPRIOR DATE:
 Sequence 6, Application US/09876388 Patent No. 6593295
 TYPE: PRT ORGANISM: Artificial Sequence
 54.5%;
50.0%;
ORGANISM: Artificial Sequence
 Query Match
Best Local Similarity 50.0
Matches 3; Conservative
 Conservative
 Query Match
Best Local Similarity
Matches 3; Conserv
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 1 FTSDVS 6
 1 FILEIS 6
 PCT-US95-10793-4
 US-09-876-388-6
 US-09-876-388-6
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 | Patent NO. 6514500
| GRUBRAL INPORMATION:
| APPLICANT: Bridon, Dominique P. | APPLICANT: Bridon, Dominique P. | APPLICANT: Briton, Alan M. | APPLICANT: Britin, Alan M. | APPLICANT: Holmes, Darren L. | APPLICANT: Briting Striper (Briting Canter, Serge | FILE REFERENCE: 500862001600 | FILE REFERENCE: 500862001600 | CURRENT APPLICATION NUMBER: US/09/657,332A | CURRENT APPLICATION NUMBER: 60/159,783 | PRIOR FILING DATE: 1999-10-15 | PRIOR FILING DATE: 1999-10-15 | PRIOR FILING DATE: 1999-10-15 | SOFTWARE: Patentin Ver. 2.1 | SEQ ID NO 6 | LENGTH: 6 | LENGTH: 6 | LENGTH: 6 | LENGTH: 6 | TYPE: PRI
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 FEATURE:
) OTHER INFORMATION: Description of Artificial Sequence: Synthetic
) OTHER INFORMATION: Peptide
0S-02-623-618B-6
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 ;
 | FARCHEAL INCOMPATION:
| APPLICANT: Bridon, Dominique P. |
| APPLICANT: Bridon, Dominique P. |
| APPLICANT: Erian, Alan M. |
| APPLICANT: Ezrin, Alan M. |
| APPLICANT: Exim. Alan M. |
| APPLICANT: Leblanc, Darren L. |
| APPLICANT: Leblanc, Anouk |
| TILE REFERENCE: 500862001620 |
| FILE REFERENCE: 500862001620 |
| PRIOR APPLICATION NUMBER: PCT/US00/13563 |
| PRIOR PILING DATE: 1999-10-15 |
| PRIOR PILING DATE: 1999-10-15 |
| PRIOR FILING DATE: 1999-10-15 |
| PRIOR FILING DATE: 1999-10-15 |
| NUMBER OF SEQ IN NOS: 35 |
| SOFTWARE: PastSEQ for Windows Version 4.0 |
 1; Indels
 Score 18; DB 3; Length 6;
Pred. No. 3.8e+05;
2; Mismatches 1; Indels
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 50.0%; Pred. No. 3.8e+05; ive 2; Mismatches 1;
 Sequence 6, Application US/09657332A
Patent No. 6514500
 US-09-623-618B-6; Sequence 6, Application US/09623618B; Patent No. 6329336
 54.5%;
 TYPE: PRT
ORGANISM: Artificial Sequence
 Query Match
Best Local Similarity 50.0
Matches 3; Conservative
 3; Conservative
 Best Local Similarity
Matches 3; Conser
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1 FTSDVS 6
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 OTHER INFORMATION: Description of Artificial Sequence: Synthetic OTHER INFORMATION: Peptide
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 Sequence 23, Application US/09218363
Fatent No. 6387616
Fatent No. 6387616
GENERAL INFORMATION:
APPLICANT: Ozelius, Laurie J.
APPLICANT: Ozelius, Laurie J.
TITLE OF INVENTION: TORSIN, TORSIN GENES, AND METHODS OF USE
FILE REFERENCE: MGH-11842A2
CURRENT APPLICATION NUMBER: US/09/218,363
CURRENT APPLICATION NUMBER: US/09/244
EARLIER APPLICATION NUMBER: 60/050,244
EARLIER FILING DATE: 1998-06-18
EARLIER FILING DATE: 1997-06-19
NUMBER OF SEQ ID NOS: 29
SOFTWARE: RestSEQ for Windows Version 3.0
LENGTH: 7
 GENERAL INCORMATION:
APPLICANT: Bridon, Dominique P.
APPLICANT: Bridon, Dominique P.
APPLICANT: Exteneyque, Benoit
APPLICANT: Exteneyque, Benoit
APPLICANT: Exteneyque, Benoit
APPLICANT: Holmes, Darren L.
APPLICANT: Belanc, Anouk
FILE OF INVENTION: LONG LASTING INSULINOTROPIC PEPTIDES
FILE REPRENCE: 500862001620
CURRENT APPLICATION NUMBER: US/09/623,618B
CURRENT FILING DATE: 2000-09-05
FRICR APPLICATION NUMBER: PCT/US00/13563
FRIOR APPLICATION NUMBER: 60/159,783
FRIOR FILING DATE: 1999-10-15
FRIOR APPLICATION NUMBER: 60/134,406
FRIOR APPLICATION NUMBER: 60/134,
 54.5%; Score 18; DB 1; Length 7; 50.0%; Pred, No. 3.8e+05;
 1; Indels
 54.5%; Score 18; DB 3; Length 7; 50.0%; Pred. No. 3.8e+05; Live 2; Mismatches 1; Indels
 2; Mismatches
 Sequence 7, Application US/09623618B Patent No. 6329336
 TYPE: PRT
ORGANISM: Artificial Sequence
 3; Conservative
 Query Match
Best Local Similarity 50.0
Matches 3; Conservative
 ; MOLECULE TYPE: peptide US-08-297-731-5
 TOPOLOGY: linear
 Query Match
Best Local Similarity
Matches 3; Conserv
 1 FILEIS 6
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2 FTSDVS 7
 1 FILEIS 6
 2 FTSDVS
 US-09-623-618B-7
 US-09-623-618B-7
 US-09-218-363-23
 FEATURE:
 RESULT 15
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 Gaps
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 Sequence 5, Application US/08297731
Sequence 5, Application US/08297731
Sequence 5, Application US/08297731
Setting No. 5574008
SETTING PRACTION: William T. APPLICANT: Yakubu-Madus, Fatima E. TITLE OF INVENTION: BIOLOGICALLY ACTIVE FRACMENTS OF TITLE OF INVENTION: GLUCAGON-LIKE INSULINOTROPIC PEPTIDE NUMBER OF SEQUENCES: 13
CORRESPONDENCES. 13
CORRESPONDENCE ADDRESS:
STREET: Lilly and Company/RSM
STREET: Lilly and company/RSM
CITY: Indianapolis
 54.5%; Score 18; DB 5; Length 6; 50.0%; Pred. No. 3.8e+05; tive 2; Mismatches 1; Indels
 COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM FC compatible
OPERATING SYSTEM: PC-DOS/NS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/297,731
FILING DATE:
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Maciak, Ronald S.
REGISTRATION NUMBER: 35,262
 COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/10793
 APPLICALLA.
APPLICATION:
FILING DATE:
CLASSIPICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Maciak, Ronald S.
REFIRENCE/DOCKET NUMBER: 35,262
TELECOMMUNICATION INFORMATION:
TELEBENORE: 317-276-164
TELEBENORE: 317-276-164
TELEBENORE: 317-277-1917
SEQ ID NO: 4:
 TELECOMMUNICATION INFORMATION:
TELEPHONE: 317-276-1664
TELEFAX: 317-277-1917
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
 Query Match
Best Local Similarity 50.0
Matches 3; Conservative
 LENGTH: 6 amino acids
 INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
 7 amino acids
 single
 TOPOLOGY: linear MOLECULE TYPE: peptide
 single
 amino acid
 LENGTH: 7 amino a
TYPE: amino acid
STRANDEDNESS: sir
 1 FTLEIS 6
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FTSDVS 6
 STRANDEDNESS:
 USA
 PCT-US95-10793-4
 US-08-297-731-5
 COUNTRY:
 CITY: 3
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; TYPE: PRT
; ORGANISM: Homo sapien
US-09-218-363-23
Query Match
Best Local Similarity 75.0%; Pred. No. 3.8e+05;
Matches 3; Conservative 1; Mismatches 0; Indels
OY 1 FILE 4
| | | | | | |
Db 2 FTME 5
Search completed: November 4, 2004, 01:25:35
Job time: 24.6667 secs
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GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
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Run on:

November 4, 2004, 01:09:31; Search time 18.3333 Seconds (without alignments) 36.737 Million cell updates/sec

US-09-712-819D-12 33 1 FTLEISR 7 Title: Perfect score: Sequence:

Scoring table:

BLOSUM62 Gapop 10.0 , Gapext 0.5

283416 seqs, 96216763 residues Searched:

Total number of hits satisfying chosen parameters:

457

Minimum DB seq length: 0 Maximum DB seq length: 7

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

PIR 79:\*
1: pir1:\*
2: pir2:\*
3: pir3:\*
4: pir4:\* Database :

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

|           | Description           | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 | alvanorotein gomno | DNA topoisomerase | major fatiglobile | hypothetical prote | 22X superhelical | T-cell receptor be | protei |        | phosphotransferase | 18K profein 5507 - | neiromodiilatory ne |        | ٠.     | alkanal monooxygen | phosphonrotein | T-cell receptor be |        | receptor | e protein | flagellar protein | T-cell receptor be | dnaA protein - Pse | myl oligon | phosphodlycerate t | 28K ubi mitin-immu | nemronentide TE-6 | Y protein - himan | ribosomal protein |
|-----------|-----------------------|------------------------------------------|--------------------|-------------------|-------------------|--------------------|------------------|--------------------|--------|--------|--------------------|--------------------|---------------------|--------|--------|--------------------|----------------|--------------------|--------|----------|-----------|-------------------|--------------------|--------------------|------------|--------------------|--------------------|-------------------|-------------------|-------------------|
| SUMMARIES | ID                    | B26206                                   | E48394             | 148086            | B48394            | T14910             | A61300           | PT0644             | S19630 | A60521 | B39127             | PS0254             | S33244              | 833245 | T13892 | A44955             | S11127         | PT0525             | PT0577 | PT0700   | 869237    | E42364            | PT0565             | B34835             | A60986     | T11779             | A43766             | JH0784            | 137263            | 7876              |
|           | DB                    | 2                                        | ~                  | ~                 | N                 | 7                  | 7                | ~                  | ~      | N      | ~                  | N                  | N                   | 'n     | m      | 7                  | 7              | ~                  | CI.    | 0        | ~         | 7                 | 7                  | ~                  | ~          | N                  | ~                  | 7                 | 7                 | Ŋ                 |
|           | Query<br>Match Length | 9                                        | 7                  | 7                 | 7                 | Ŋ                  | 4                | ιυ                 | 7      | Ŋ      | 7                  | 7                  | 7                   | 7      | m      | ហ                  | Ŋ              | Ŋ                  | ហ      | ហ        | വ         | ហ                 | Ŋ                  | φ                  | 9          | 9                  | 9                  | 9                 | 9                 | ω                 |
| о/ю       | Query<br>Match        | 39.4                                     | 39.4               | 39.4              | 39.4              | 36.4               | 33.3             | 33.3               | m      | 0      | 0                  | 0                  | 0                   | 0      | ~      | 27.3               | ~              | ~                  | 7      | ~        | ~         | <u> </u>          | ~                  | ~                  | ~          | 7                  | ~                  | 7                 | 27.3              | 7                 |
|           | Score                 | 13                                       | 13                 | 13                | 13                | 12                 | 11               | 11                 | 11     | 10     | 10                 | 10                 | 10                  | 10     | σ      | თ                  | σ              | თ                  | σ      | თ        | o.        | σ                 | ወ                  | თ                  | D          | Q                  | თ                  | σ                 | δ                 | Q                 |
|           | Result<br>No.         | Н                                        | 7                  | m                 | 4                 | 5                  | 9                | 7                  | æ      | σ      | 10                 | 근                  | 12                  | 13     | 14     | 15                 | 16             | 17                 | 18     | 19       | 20        | 21                | 22                 | 23                 | 24         | 25                 | 26                 | 27                | 28                | 29                |

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Query Match
39.4%; Score 13; DB 2; Length 7;
Best Local Similarity 50.0%; Pred. No. 2.8e+05;
Matches 2; Conservative 2; Mismatches 0; Indels

4 EISR 7

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| fatty-acid synthas<br>MHC H2-L antigen -<br>T-call recentor | T-cell receptor be T-cell receptor be peptidyl-dipeptida nilE nycheln - Fo | r-d            | kappa chain<br>ell receptor | carnocin 1149 - Ca<br>Na+-transporting A | πř     |
|-------------------------------------------------------------|----------------------------------------------------------------------------|----------------|-----------------------------|------------------------------------------|--------|
| A20186<br>165546<br>PT0518                                  |                                                                            |                |                             | A58718<br>S45648<br>PN0649               | A15398 |
| 0.00                                                        | 1000                                                                       | 000            | 000                         | 000                                      |        |
| 27.3                                                        | 27.3                                                                       | 27.3           | 27.3                        | 27.3                                     | 27.3   |
| თთთ                                                         | თთთ                                                                        | თთთ            | თთთ                         | თთთ                                      | o,     |
| 30<br>31<br>32                                              | 33<br>34<br>35                                                             | 36<br>37<br>38 | 39<br>40<br>41              | 4 4 4<br>5 6 4                           | 45     |

## ALIGNMENTS

|            | RESULT 1                  |                                                                                                                                       |
|------------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
|            | B26206                    |                                                                                                                                       |
|            | alpha-1,4                 | alpha-1,4-glucan-protein synthase (UDP-forming) (EC 2.4.1.112) - rabbit (fracment)                                                    |
|            | C;Species                 | C; Species: Oryctolagus cuniculus (domestic rabbit)                                                                                   |
|            | C;Date: 3                 | C;Date: 30-Oct-1992 #sequence revision 30-Oct-1992 #text change 13-Sep-1996                                                           |
|            | C;Accessi                 | C,Accession: B26206; A26206                                                                                                           |
|            | R;Larner,                 | R,Larner, J.; Sanger, F.                                                                                                              |
| -          | J. Mol. E                 | J. Mol. Biol. 11, 491-500, 1965                                                                                                       |
|            | A; Title:                 | A, Title: The amino acid sequence of the phosphorylation site of muscle uridine dinhosphy.                                            |
|            | A;Referen                 | A;Reference number: A26206                                                                                                            |
|            | A;Accessi                 | A;Accession: B26206                                                                                                                   |
|            | A; Molecul                | A;Molecule type: protein                                                                                                              |
|            | A;Residue                 | A;Residues: 1-6 <lar></lar>                                                                                                           |
|            | A; Experim                | A; Experimental source: muscle                                                                                                        |
|            | A;Note: L                 | A; Note: Lys-1 was also found                                                                                                         |
|            | C;Keyword<br>F;4/Bindi    | C:Keywords: glycosyltransferase; hexosyltransferase; phosphoprotein F:4/Binding site: phosphate (Ser) (covalent) #status experimental |
|            |                           | 150201111111111111111111111111111111111                                                                                               |
| · <u> </u> | Query Match<br>Best Local | Query Match 39.4%; Score 13; DB 2; Length 6;<br>Best Local Similarity 100.0%; Pred. No. 2 Re+05.                                      |
|            | Matches                   | ative 0;                                                                                                                              |
|            | ζ                         | 4 BIS 6                                                                                                                               |
|            |                           |                                                                                                                                       |
|            | ΩÞ                        | 2 BIS 4                                                                                                                               |
|            | C 111000                  |                                                                                                                                       |
|            |                           |                                                                                                                                       |
|            | E48394                    |                                                                                                                                       |
|            | glycoprot                 | glycoprotein component 16/major fat-alobule membrane protein/Mpg-ps homolog - homing /s.                                              |
|            | C;Species                 |                                                                                                                                       |
|            | C;Date: 1                 | C;Date: 19-Nov-1993 #sequence revision 18-Nov-1994 #text change 07-Reh-1997                                                           |
|            | C;Accessi                 | C; Accession: E48394                                                                                                                  |
|            | R; Mather,                | I.H.; Banghart, L.R.; Lane, W.S.                                                                                                      |
|            | Biochem.                  | Biochem. Mol. Biol. Int. 29, 545-554, 1993                                                                                            |
| •          | A;Title:                  | he major fat-globule membrane proteins, bovine components 15/16 and mines-nid                                                         |
|            | II-like sequences.        | quences.                                                                                                                              |
|            | A;Referen                 | A; Reference number: A48394; MUID: 93250576; PMID: 8485470                                                                            |
|            | A;Accession: E48394       | n: E48394                                                                                                                             |
|            | A;Status:                 | A;Status: preliminary                                                                                                                 |
|            | A;Molecul                 | A, Molecule type: protein                                                                                                             |
|            | A, Residue                | 1 1 - 7 < MAT>                                                                                                                        |
|            | A; EXPELIM                | A Experimental Source: milk                                                                                                           |
|            | A;NOTE: S                 | A;Note: sequence extracted from NCBI backbone (NCBIP:131450)                                                                          |
|            | ביי יישרא איטיי יי        | . מיז נונגווו                                                                                                                         |

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C.Species: Escherichia coli
C.Species: Escherichia coli
C.Species: Escherichia coli
C.Jate: 17-Jul-1994 #sequence_revision 17-Jul-1994 #text_change 07-May-1999
C.Jacession: A61300
C.Jacession: A61300
B.Kishi, F.; Ebina, Y.; Miki, T.; Nakazawa, A.
J. Biochem. 92, 1059-1068, 1982
J. Reference number: A61300, MUID:83082696; PMID:6294066
A.Accession: A61300
A.Molecule type: protein
A.Molecule type: protein
A.Residues: 1-4 «KIS»
C.Comment: This protein resembles some of the histone-like protein of bacteria in amino C.Keywords: DNA binding; monomer
 C;Accession: PT0644

B;Feeney, A.J.
J. Exp. Med. 174, 115-124, 1991
A;Reference number: PT0509; MUID:91277601; PMID:1711558
 Libosomal protein L30 - Streptomyces griseus (fragment)
C;Species: Streptomyces griseus
C;Species: Streptomyces griseus
C;Date: 12-Feb-1993 #sequence_revision 12-Feb-1993 #text_change 06-Jun-1997
C;Accession: S19630
R;Ochi, K.
Int. J. Syst. Bacteriol. 42, 144-150, 1992
A;Title: Electrophoretic heterogeneity of ribosomal protein AT-L30 among actinomycete A;Accession: S19630, MUID:92144363; PMID:1736962
A;Accession: S19630
A;Wolecule type: protein
A;Residues: 1-7 <0CH>
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 0;
 T-cell receptor beta chain V-D-J region (111-1G) - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Date: 17-Jul_1992 #sequence_revision 17-Jul-1992 #text_change 09-Jul-2004
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 Indels
 Length 5;
 Score 11; DB 2; Length 4; Pred. No. 2.8e+05; 1; Mismatches 0; Indels
 0; Indels
 DB 2; Ler
2.8e+05;
ches 0;
 A,Status: translation not shown
A,Molecule type: mRNA
A,Residues: 1-5 <FEE>
A,Cross-references: UNIPROT:0922T6
A,Experimental source: newborn thymus, strain BALB/c
C,Keywords: T-cell receptor
Pred. No. 2.8e+05;
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Best Local Similarity 100.0%; Pred. No. 2.6
Matches 2; Conservative 0; Mismatches
 33.3%;
 66.78;
 Conservative
 Similarity 66.7
2; Conservative
 Query Match
Best Local Similarity
Matches 2; Conserv
 1 MEI 3
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 3 LEI 5
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 1 FT 2
 5 ISR
 2 VSR
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 Best Local
Matches
 RESULT 8
 RESULT 7
 PT0644
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 hypothetical protein - parsley
C;Species: Petroselinum crispum (parsley)
C;Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 21-Jul-2000
C;Accession: T14910
R;Kircher, S.; Ledger, S.; Hayashi, H.; Weisshaar, B.; Schafer, B.; Frohnmeyer, H.
A)O. Gen. Genet. 257, 595-605, 1998
A;Title: CPRF4a, a novel plant bZIP protein of the CPRF family: comparative analysis of A;Reference number: Z18261; MUID:98265918; PMID:9604882
 C'Accession: B48394
Kymther. T.H.; Banghart, L.R.; Lane, W.S.
Biochem. Mol. Biol. Int. 29, 545-554, 1993
A;Title: The major fat-globule membrane proteins, bovine components 15/16 and guinea-pig
 DNA topoisomerase II alpha - Chinese hamster (fragment)
C;Species: Cricetulus griseus (Chinese hamster)
C;Species: Cricetulus griseus (Chinese hamster)
C;Date: 02-011-1996 #sequence_revision 02-011-1996 #text_change 05-Nov-1999
C;Date: 02-011-1996 #sequence_revision 02-011-1996 #text_change 05-Nov-1999
C;Accession: 148086
B;Ng, S;W; Bder, J.P.; Schnipper, L.E.; Chan, V.T.W.
J Biol. Chem. 270, 25850-25858, 1995
Jyittle: Molecular cloning and characterization of the promoter for the Chinese hamster A;Reference number: 148086
Millians preliminary; translated from GB/EMBL/DDBJ
A;Graus: preliminary; translated from GB/EMBL/DDBJ
A;Accession: 17 <RES>
A;Accession: L7 <RES>
A;Cross-references: EMBL:U34196; NID:g1041231; PIDN:AAC52315.1; PID:g1041232
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 A,Residues: 1-5 <KIR>
A,Cross-references: EMBL:Y10810; NID:g3336904; PIDN:CAA71769.1; PID:g3336905
A,Experimental source: ssp. Hamburger Schnitt
 major fat-globule membrane protein GP 55 - guinea pig (fragment)
C;Species: Cavia porcellus (guinea pig)
C;Date: 19-Nov-1993 #sequence_revision 18-Nov-1994 #text_change 23-Mar-1995
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 0; Indels
 DB 2; Length 5;
 0; Indels
 Length 7;
 Length 7;
 A;Experimental source: milk
A;Note: sequence extracted from NCBI backbone (NCBIP:131444)
 A;Reference number: A48394; MUID:93250576; PMID:8485470 A;Accession: B48394
 Query Match 39.4%; Score 13; DB 2; I Best Local Similarity 50.0%; Pred. No. 2.8e+05; Matches 2; Conservative 0;
 Score 13; DB 2; I
Pred. No. 2.8e+05;
 A;Accession: T14910
A;Status: preliminary; translated from GB/EMBL/DDBJ
 2; Mismatches
 36.4%; Score 12;
 Query Match 39.4%;
Best Local Similarity 50.0%;
Matches 2; Conservative
 A; Status: preliminary
A; Molecule type: protein
A; Residues: 1-7 < MAT>
 A; Molecule type: mRNA
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 II-like sequences.
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T13892
cytochrome-c oxidase (BC 1.9.3.1) chain I [imported] - river lamprey mitochondrion (frac
cytochrome-c oxidase (BC 1.9.3.1) chain I [imported] - river lamprey)
C;Species: mitochondrion Lampetra fluviatilis (river lamprey)
C;Date: 15-Unn-2001 #sequence_revision 15-Jun-2001 #text_change 15-Jun-2001
C;Accession: T13892
 C; Accession: S33244
R; Minakata, H.; Ikeda, T.; Muneoka, Y.; Kobayashi, M.; Nomoto, K.
R; Minakata, H.; Ikeda, T.; Muneoka, Y.; Kobayashi, M.; Nomoto, K.
B; Minakata, H.; Ikeda, T.; Muneoka, Y.; Kobayashi, M.; Nomoto, K.
A; Title: Wwamide-1, -2 and -3: novel neuromodulatory peptides isolated from ganglia of A; Reference number: S33244; MUID:93265912; PMID:8495720
A; Accession: S33244
 A;Title: Wwamide-1, -2 and -3: novel neuromodulatory peptides isolated from ganglia of A;Reference number: 833244; MUD:93265912; PMID:8495720
A;Accession: 833245
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-7 <MIN>
 0;
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 neuromodulatory peptide WMamide-1 - giant African snail
C;Species: Achatina fulica (giant African snail)
C;Date: 19-Mar-1997 #sequence_revision 19-Mar-1997 #text_change 09-Jul-2004
 neuromodulatory peptide Wwamide-2 - giant African snail

C;Species: Acharina fulica (giant African snail)

C;Accession: S3245

R;Minakata, H; Ikeda, T; Muneoka, Y; Kobayashi, M; Nomoto, K.

PESS Lett. 323, 104-108, 1993
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 Length 7;
 30.3%; Score 10; DB 2; Length 7; illarity 66.7%; Pred. No. 2.8e+05; Conservative 1; Mismatches 0; Indels
 Indels
 Length 7;
 submitted to JIPID, April 1993
A;Reference number: PS0206
A;Accession: PS0254
A;MOlecule type: protein
A;Residues: 1-7 <TSU>
A;Reperimental source: leaf, chloroplast, strain Nihonbare
A;Note: molecular weight 18K, pI 4.4
 Score 10; DB 2; Ler
Pred. No. 2.8e+05;
1; Mismatches 0;
 30.3%; Score 10; DB 2; L
40.0%; Pred. No. 2.8e+05;
trive 2; Mismatches 1;
 A; Cross-references: UNIPROT: P35919
 A; Cross-references: UNIPROT: P35921
 30.3%;
 2; Conservative
 2; Conservative
 Query Match
Best Local Similarity
 A; Molecule type: protein A; Residues: 1-7 < MIN>
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Best Local Similarity
Matches 2; Conserv
 Query Match
Best Local Similarity
Matches 2; Conserv
 3 LEISR 7
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1 LAIAK 5
 A;Status: preliminary
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 EMS 5
 4 EIS 6
 3 EMS 5
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 RESULT 14
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 Glycogen phosphorylase (EC 2.4.1.1), muscle - mullet (Liza ramada) (fragment)
N.Alternate names: glycogen phosphorylase b
C;Agecies: Liza ramada
C;Date: 17-Apr-1993 #sequence_revision 17-Apr-1993 #text_change 15-Mar-2004
C;Accession: A60521
C;Accession: A60521
C;Accession: Bananate, I.V.
Comp. Biochem. Physiol. B 95, 255-301, 1990
A;Title: Purification and characterization of glycogen phosphorylase B from skeletal must receive a month of the comp. Physiol. B 05521; MUID:90227907; PMID:2109669
 A;Accession: A60521
A;Molecule type: protein
A;Residues: 1-5 <BON>
C;Keywords: glycosyltransferase; hexosyltransferase; phosphoprotein
F;3/Binding site: phosphate (Ser) (covalent) (by phosphorylase b kinase) #status experim
 phosphotransferase system enzyme II (BC 2.7.1.69) - Escherichia coli (fragment)
C;Species: Escherichia coli
C;Species: 27-Nov-1991 #sequence_revision 27-Nov-1991 #text_change 08-Oct-1999
C;Accession: B39127
R;Hardesty, C.; Ferran, C.; DiRienzo, J.M.
J; Bacteriol. 173, 449-456, 1991
A;Title: Plasmid-mediated sucrose metabolism in Escherichia coli: characterization of sq
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 PS0254
18K protein 5507 - rice (strain Nihonbare) (fragment)
18K protein S507 - rice (strain Nihonbare) (fragment)
C;Species: Oryza sativa (rice)
C;Date: 03-Feb-1994 #sequence_revision 03-Feb-1994 #text_change 23-Mar-1995
C;Accession: PS0254
R;Tsugita, A.
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 A; Molecule type: DNA'
**Residues: 1-7 + CHRA>
**A; Kesidues: 1-7 + CHRA>
**A; Cross-references: GB M38416; NID:g155142; PIDN:AAA98418.1; PID:g155144
C; Keywords: phosphotransferase
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 33.3%; Score 11; DB 2; Length 7; 40.0%; Pred. No. 2.8e+05; 1ive 3; Mismatches 0; Indels
 30.3%; Score 10; DB 2; Length 5; 66.7%; Pred. No. 2.8e+05; Live 1; Mismatches 0; Indels
 30.3%; Score 10; DB 2; Length 7; 66.7%; Pred. No. 2.8e+05; tive 1; Mismatches 0; Indels
 A;Reference number: A39127; MUID:91100329; PMID:1846143
A;Accession: B39127
A;Status: preliminary
A, Experimental source: strain IFO 13189
C, Superfamily: Escherichia coli ribosomal protein L30
C, Keywords: protein biosynthesis; ribosome
 Query Match
Best Local Similarity 40.0
Matches 2; Conservative
 Conservative
 Query Match 30.3
Best Local Similarity 66.7
Matches 2; Conservative
 3 LEISR 7
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 EIS 6
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alkanal monooxygenase (FMN-linked) (BC 1.14.14.3) alpha chain - Vibrio harveyi (fragment clabeles: Vibrio harveyi
C;Bpecies: Vibrio harveyi
C;Bate: 03-Jun-1993 #sequence_revision 03-Jun-1993 #text_change 26-May-2000
C;Accession: A44955
B;Paquatte, 0.; Tu, S.C.
Photochem. Photobiol. 50, 817-825, 1989
A;Itle: Chemical modification and characterization of the alpha cysteine 106 at the Vib A;Reference number: A44955; MUID:90175700; PMID:2626493
A;Returns: preliminary
A;Molecule type: preliminary
A;Nesidues: 1-5 < PAQ>
C;Keywords: FNN; luminescence; monooxygenase; oxidoreductase
R;Delarbre, C.; Barriel, V.; Tillier, S.; Janvier, P.; Gachelin, G.
Mol. Biol. Evol. 14, 807-813, 1997
A;Title: The main features of the craniate mitochondrial DNA between the ND1 and the COI
A;Reference number: Z17775; MUID:97398704; PMID:9254918
A;Accession: T13892
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Accession: T13892
A;Status: Dreliminary; translated from GB/EMBL/DDBJ
A;Accession: T13892
A;Accession: T13892
A;Cross-references: EMBL:Y09528; NID:g2340016; PIDN:CAA70721.1; PID:g4379123
C;Genetics:
A;Genome: mitochondrion
A;Note: COI
C;Keywords: mitochondrion; oxidoreductase
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 Query Match 27.3%; Score 9; DB 2; Length 5; Best Local Similarity 66.7%; Pred. No. 2.8e+05; Matches 2; Conservative 0; Mismatches 1; Indels
 0; Indels
 Query Match

27.3%; Score 9; DB 3; Length 3;
Best Local Similarity 100.0%; Pred. No. 2.8e+05;
Matches 2; Conservative 0; Mismatches 0; Indels
 Search completed: November 4, 2004, 01:24:17 Job time: 18.3333 secs
 5 ISR 7
 3 IXR 5
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0994010 transmissib
0994010 transmissib
089120 gallum gall
P83568 sepia offic
P82071 litoria rub
P25154 oryctolagus
P41491 locusta mig
P8251 spinacia ol
P31890 ascaria suu
P38641 mus musculu
P38641 mus musculu
P38645 homo sapien
Q18897 bomo sapien
 Drews O., Weiss W., Reil G., Parlar H., Wait R., Goerg A.;
"High pressure effects step-wise altered protein expression in
Lactobacillus sanfranciscensis.";
Proteomics 2:765-774(2002).
-!- MISCELLANBOUS: On the 2D-gel the determined MW of this unknown
protein is: 15 kDa.

NON_TER
 STRAINE=W5;
MEDLINE=98291870; PubMed=9629918;
Flengsrud R., Skjeldal L.;
"Two-dimensional gel electrophoresis separation and N-terminal sequence analysis of proteins from Clostridium pasteurianum W5.";
 15-JUL-1998 (Rel. 36, Created)
15-JUL-1998 (Rel. 36, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
Unknown protein CP 6 from 2D-PAGE (Fragment).
Clostridium pasteurianum.
Bacteria; Firmicutes; Clostridia; Clostridiales; Clostridiaceae;
 P83530; TEMBLE 24, Created)
01-01NN-2003 (TEMBLE) 24, Last sequence update)
01-01NN-2003 (TEMBLE) 24, Last sequence update)
01-01NN-2003 (TEMBLE) 24, Last annotation update)
Unknown protein from 2D-page (Fragment).
Lactobacillus sanfranciscensis (Lactobacillus sanfrancisco).
Bacteria, Pirmicutes; Lactobacillales; Lactobacillus.
 42.4%; Score 14; DB 2; Length 7; llarity 50.0%; Pred. No. 1.8e+06; Conservative 2; Mismatches 0; Indels
 790 MW; 6AAB02CAA731B2A0 CRC64;
 AA.
 6 A.A.
 ALIGNMENTS
 09YQ10
09YVB3
08JYB3
08JYB3
08JYB3
08JYB3
1LME_SEPOF
ACPH_LOMI
LOX1_LOMI
LOX1_LOMI
LOX1_LOMI
LOX1_LOMI
LOX1_LOMI
UN3_MOUSE
UP03_MOUSE
UP03_MOUSE
UP03_MOUSE
 PRT;
 12111112222
 PRELIMINARY;
 L L L L 4 R 0 0 0 0 L L L L L
 STANDARD;
 Best Local Similarity
Matches 2; Conserv
STRAIN=DSM 20451;
 7 AA;
 NCBI_TaxID=1625;
 PubMed=12112860;
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2 TLDV 5
 Clostridium.
NCBI TaxID=1501;
 2 TLEI 5
 RESULT 2
UNO6_CLOPA
ID UNO6_CLOPA
AC P81351;
 888887777777
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 AC DATE OF THE STATE OF THE STA
 P83530 lactobacill
P81351 clostridium
P8131 spinacia ol
P82082 spinacia ol
P82073 litoria rub
P82073 litoria rub
P82073 litoria rub
P82010 litoria rub
P85919 achatina fu
P35921 achatina fu
P35920 achatina fu
P3699 mus musculu
P20104 enterocococu
P16101 alcaligenes
P1932 enterocococu
P1632 enterocococu
P36960 carnobacter
P898231 lycopersico
P36960 carnobacter
P898281 carcinus ma
P88861 carcinus ma
P888628 ca mays (m
 carcinus ma
carcinus ma
carcinus ma
 cydia pomon
ascaris suu
 homo sapien
 homo sapien
 human adeno
 azotobacter
 4, 2004, 00:55:00; Search time 99.6667 Seconds (without alignments) 40.411 Million cell updates/sec
 Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
 Description
 P81806
P81807
P81808
P82158
 29yid9
 167
 GenCore version 5.1.6
(c) 1993 - 2004 Compugen Ltd.
 Total number of hits satisfying chosen parameters:
 1825181 seqs, 575374646 residues
 SUMMARIES
 Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
 P83530
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P82181
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WWA3 ACHFU
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CFT ENTFA
CHOX ALCSP
CIA ENTFA
GERP MOUSE
LANC CARUI
 protein search, using sw model
 007354
08JTB11
ALI4 CARMA
PSK DAUCA
UC2Z_MAIZE
ALI4_CARMA
ALI4_CARMA
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ALI5_CARMA
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ALI5_CARMA
 RE31 LITRU
RE32 LITRU
 BLOSUM62
Gapop 10.0 , Gapext 0.5
 Q8TAQ4
P70804
Q9YIQ9
 UniProt_02:*
1: uniprot_sprot:*
2: uniprot_trembl:*
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Minimum DB Maximum DB

Database

Title: Perfect score:

Sequence:

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 Best Local Similarity
 NCBI TaxID=104895;
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 Query Match
 RESULT 6
RE32_LITRU
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 MEDLINES_20435798; PubMed=108740;

A MEDLINES_20435798; PubMed=108740;

A menguchi K., Subramanian A.R.;

The plastid ribosomal proteins. Identification of all the proteins in

The plastid ribosomal proteins. Identification of all the proteins in

The plastid ribosomal proteins. Identification of all the proteins in

The 50 S subunit of an organile ribosome (chloroplast).";

L. Biol. Chem. 275:28466-28482(2000).

I. Biol. Chem. 275:28466-28482(2000).

I. Biol. Chem. 275:28466-28482(2000).

I. SUBCELLUIAR LOCATION: CHLOROPLAST.

I. SUBCELLUIAR EDORGIN STROPLAST.

I. SUBLINESTER SPECIFICITY. EXPRESSED IN ALL PLANT TISSUES.

I. SIMILARITY: BELONGS TO THE LIOP FAMILY OF RIBOSOMAL PROTEINS.

GO; GO:0019843; F:RENA binding; IEA.

GO; GO:0019843; F:RENA binding; IEA.

GO; GO:003735; F:Structural constituent of ribosome; IEA.

RO; GO:003735; F:Structural constituent of ribosome; IEA.

ROSITE; PSOILO9; RIBOSOMAL LIO; PARTIAL.

ROSITE; PSOILO9; RIBOSOMAL LIO; PARTIAL.

CHICCEPLY: RIBOSOMAL LIO; PRAFITAL.

CHICCEPLY: RIBOSOMAL LIO; PRAFITAL.
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 01-JUN-2000 (TrEMBLrel. 14, Created)
01-JUN-2000 (TrEMBLrel. 14, Last sequence update)
01-OCT-2003 (TrEMBLrel. 15, Last annotation update)
Chloroplast 50S ribosomal protein L10 beta (Fragment).
Spinacia oleracea (Spinach).
Bukaryota, Viridiplantee; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; endicotyledons; core eudicots;
Caryophyllales; Amaranthaceae; Spinacia.
NCBI_TaxID=3562;
 P82182;
01-UIN-2000 (TrEMBLrel. 14, Created)
01-UIN-2000 (TrEMBLrel. 14, Last sequence update)
01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
Chloroplast 50S ribosomal protein L10 gamma (Pragment).
Spinacia oleracea (Spinach).
Spinacia oleracea (Spinach).
Spermatophyta; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
Caryophylalaes; Amaranthaceae; Spinacia.
Electrophoresis 19:802-806(1998).
-!- MISCELLANEOUS: On the 2D-gel the determined pI of this unknown protein is: 5.0, its MW is: 75.9 kDa.
Direct protein sequencing.
 .;
0
 0;
 h similarity 100.0%; Pred. No. 1.8e+06; 3; Conservative 0; Mismatches 0; Indels
 39.4%; Score 13; DB 1; Length 6; 75.0%; Pred. No. 1.8e+06; ive 0; Mismatches 1; Indels
 6 AA; 675 MW; 6321B415B05DB000 CRC64;
 6 AA; 657 MW; 605B1DC1A45A8000 CRC64;
 6 AA.
 6 AA.
 PRT;
 PRT;
 ALWARO; TISSUE=Leaf;
 Query Match
Best Local Similarity 75.0.
 PRELIMINARY;
 PRELIMINARY;
 Query Match
Best Local Similarity
Matches 3; Conserv
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 3 TABI 6
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SEQUENCE, AND MASS SPECTROMETRY.

TISSUB-Skin secretion;
Steinborner S.T., Wabnitz P.A., Waugh R.J., Bowie J.H., Gao C.,
Steinborner S.T., Wabnitz P.A., Waugh R.J., Bowie J.H., Gao C.,
Tyler M.J., Wallace J.C.,
"The structure of new peptides from the Australin red tree frog
'Litoria rubella'. The skin peptide profile as a probe for the study
of evolutionary trends of amphibians.";
Aust. J. Chem. 49:955-963 [1996].
-:- FUNCTION: Shows neither neuropeptide activity nor antibiotic
 Gaps
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 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Amphibia; Batrachia; Anura; Neobatrachia; Hyloidea; Hylidae;
Pelodryadinae; Litoria.
 -!- SUBCELLUILAR LOCATION: Secreted.
-!- SUBCELLUILAR LOCATION: Expressed by the skin dorsal glands.
-!- MASS SPECTROMETRY: Expressed by the skin dorsal glands.
-!- MASS SPECTROMETRY: MW=655; METHOD=FAB; RANGE=1-5; NOTE=Ref.1.
Amidation; Amphibian defense peptide; Direct protein sequencing.
MOD RES
5 Threonine amide.
SEQÜENCE 5 AA; 656 MW; 71A9C9CB10300000 CRC64;
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 GO: GO:0009507; C:chloroplast; IEA.
GO; GO:0019843; F:rRNA binding; IEA.
GO; GO:001735; F:structural constituent of ribosome; IEA.
Interpro; IPRO3263; Ribosomal Liloub.
PROSITE; PS01109; RIBOSOMAL LIC, PARTIAL.
Chloroplast; Ribosomal protein; rRNA-binding.
 33.3%; Score 11; DB 1; Length 5; 100.0%; Pred. No. 1.8e+06; tive 0; Mismatches 0; Indels
 Length 6;
 0; Indels
 6 AA; 675 MW; 6321B415B05DB000 CRC64;
 39.4%; Score 13; DB 2; Le
100.0%; Pred. No. 1.8e+06;
Live 0; Mismatches 0;
 28-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
 5 AA.
 28-FEB-2003 (Rel. 41, Last sequence 05-JUL-2004 (Rel. 44, Last annotatic Rubellidin 3.1. Litoria rubella (Desert tree frog).
 Conservative
 3; Conservative
 STANDARD;
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Achatina fulica (Giant African snail).
Bukaryota; Metazoa; Mollusca; Gastropoda; Pulmonata; Stylommatophora;
Sigmurethra; Achatinoidea; Achatinidae; Achatina.
NCBI_TaxID=6530;
 Bukaryota; Metazoa; Mollusca; Gastropoda; Pulmonata; Stylommatophora;
Sigmurethra; Achatinoidea; Achatinidae; Achatina.
NCBI_TaxID=6530;
 Minakata H., Ikeda T., Muneoka Y., Kobayashi M., Nomoto K., "Wwanide-1, -2 and -3: novel neuromodulatory peptides isolated from ganglia of the African giant snail, Achatina fulloa."; PEBS Lett. 323:104-108(1993).
 Minakata H., Ikeda T., Muneoka Y., Kobayashi M., Nomoto K.;
"Wwamide-1, -2 and -3: novel neuromodulatory peptides isolated from ganglia of the African giant snail, Achatina fulica.";
PERS 12244; S31244.
Amidation; Direct protein sequencing; Neuropeptide.

MOD RES

SEQÜENCE 7 AA; 965 MW; 7362D5B69B132310 CRC64;
 30.3%; Score 10; DB 1; Length 7; llarity 66.7%; Pred. No. 1.8e+06; Conservative 1; Mismatches 0; Indels
 0; Indels
 Similarity 66.7%; Pred. No. 1.8e+06; 2; Conservative 1; Mismatches 0; Indels
 system. Inhibits activity on a central neuron. PIR; S33245; S33245.
 7 7 Tryptophan amide.
7 AA; 993 MW; 7362D5B69B041310 CRC64;
 01-JUN-1994 (Rel. 29, Last sequence update) 05-JUL-2004 (Rel. 44, Last annotation update)
 01-JUN-1994 (Rel. 29, Created)
01-JUN-1994 (Rel. 29, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
 7 AA.
 7 AA.
 AA.
 Achatina fulica (Giant African snail)
 TISSUE-Ganglion;
MEDLINE=93265912; PubMed=8495720;
 TISSUE-Ganglion;
MEDLINE-93265912; PubMed=8495720;
 (Rel. 29, Created)
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 4 EIS
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P35921;
 WWamide-1
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SEQUENCE
 WWamide-3
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 Query Match
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 WWA3_ACHFU
 RESULT 10
UF01 MOUSE
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 RESULT 9
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 TISSUE=Skin secretion, Wabnitz P.A., Bowie J.H., Tyler M.J., Wallace J.C., Poppides from the skin glands of the Australian buzzing tree frog Litori electrica. Comparison with the skin peptides from Litoria
 Wallace J.C.;
Australian buzzing tree frog
skin peptides from Litoria
 Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Amphibia; Batrachia; Anura; Neobatrachia; Hyloidea; Hylidae;
Pelodryadinae; Litoria.
 Litoria rubella (Desert tree frog).

Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi,
Ambhlida, Batrachia, Anura, Neobatrachia, Hyloidea, Hylidae,
Pelodryadinae, Litoria.
 Aust. J. Chem. 52:639-645(1999).
-1- FUNCTION: Shows neither neuropeptide activity nor antibiotic
 Amidation; Amphibian defense peptide; Direct protein sequencing. MOD_RES 7 7 Alanine amide. SEQUENCE 7 AA; 834 MW; 6DD05B076B0B5030 CRC64;
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 0; Indels
 Similarity 100.0%; Pred. No. 1.8e+06; 2; Conservative 0; Mismatches 0; Indels
 30.3%; Score 10; DB 1; Length 7; 66.7%; Pred. No. 1.8e+06; Live 1; Mismatches 0; Indels
RE32 LITRU STANDARD; PRT; 5 AA.
P82073;
28-FBB-2003 (Rel. 41, Created)
05-JUL-2004 (Rel. 44, Last annotation update)
Rubellidin 3.2.
Litoria rubella (Desert tree frog).
 28-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last sequence update)
05-JUJ-2004 (Rel. 44, Last annotation update)
 7 AA.
 TISSUE-Skin secretion;
Wabnitz P.A., Bowie J.H., Tyler M.J.,
"Peptidges from the skin glands of the
Litori electrica. Comparison with the
rubella.";
 Aust. J. Chem. 52:639-645(1999).
-!- SUBCELLULAR LOCATION: Secreted.
-!- TISSUB SPECIFICITY: Skin.
 Local Similarity 66.7
les 2; Conservative
 STANDARD;
 Local Similarity
 NCBI_TaxID=104895
 ||:
EIA 7
 4 EIS 6
 1 FT 2
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 LITRU
 Electrin 5.
 SEQUENCE
 Query Match
 SEQUENCE
 Query Match
 EI05 LIT
P82101;
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RESULT 7 EIO5\_LITRU

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Matches

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Gaps

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Gaps

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RESULT 8 WWA1\_ACHFU

Best Loc Matches

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Query Match
Best Local Similarity
Matches 2; Conserv
 NCBI_TaxID=1351;
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 FIL
 SR
 GFRP MOUSE
 pAM373
 CIA ENTFA P11932;
 NON TER
SEQUENCE
 GFRP_MOUSE
 RESULT 13
CIA_ENTFA
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 MEDLINE=89008313; PubbWed=3139658; Mori M., Sakagami Y., Ishii Y., Isogai A., Kitada C., Fujino M., Adsit J.C., Dunny G.M., Suzuki A.;
Adsit J.C., Dunny G.M., Suzuki A.;
"Structure of cCRIO, a peptide sex pheromone which induces conjugative transfer of the Streptococcus faecalis tetracycline resistance plasmid, pCF10."; treptococcus faecalis tetracycline resistance J. Biol. Chem. 265:14574-14578 (1988).
J. Biol. Chem. 265:14574-14578 (1988).
I-FUNCTION: CCRIO is involved in the conjugative transfer of the PTR; A30812.
 TISSUE=Fibroblast;
MEDLINE=95009907; PubMed=7523108;
MEDLINE=95009907; PubMed=7523108;
Merrick B.A., Patterson R.M., Wichter L.L., He C., Selkirk J.K.;
Merrick B.A., Patterson R.M., Michter L.L., He C., Selkirk J.K.;
Separation and sequencing of familiar and novel murine proteins using preparative two-dimensional gel electrophoresis.";
Electrophoresis 15:735-745(1994).
In ISCELLANEOUS; On the 2D-gel the determined pl of this unknown protein is: 6.6, its MW is: 19 kDa.
 Enterococcus faecalis (Streptococcus faecalis).
Bacteria; Firmicutes; Lactobacillales; Enterococcaceae; Enterococcus.
NCBI_TaxID=1351;
 Gaps
 Gaps
01-0CT-1994 (Rel. 30, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
Unknown protein from 2D-PAGE of fibroblasts (P19) (Fragment).
Mus musculus (Mouse).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 ;
0
 ..
 0; Indels
 1; Indels
 DB 1; Length 7;
 Score 9; DB 1; Length 5;
Pred. No. 1.8e+06;
0; Mismatches 1; Indels
 Direct protein sequencing; Pheromone. SEQUENCE 7 AA; 790 MW; 72C9D2C731B2C740 CRC64;
 5 AA; 717 MW; 7364087043100000 CRC64;
 01-APR-1990 (Rel. 14, Created)
01-APR-1990 (Rel. 14, Last sequence update)
05-JUL-2004 (Rel. 14, Last annotation update)
Cholline oxidase (EC 1.1.3.17) (Fragment).
 01-FEB-1991 (Rel. 17, Created)
01-FEB-1991 (Rel. 17, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
 7 AA.
 7 AA.
 27.3%; Score 9; DB 1
100.0%; Pred. No. 1.8
tive 0; Mismatches
 PRT;
 27.3%;
 Query Match
Best Local Similarity 100..
 2; Conservative
 STANDARD;
 STANDARD;
 Query Match
Best Local Similarity
 5 ISR 7
 2 IGR 4
 m
 2 TL
 CHOX ALCSP
P16101;
 ENTFA
 SEQUENCE.
 SEQUENCE
 SEQUENCE
 P20104;
 RESULT 12
CHOX ALCSP
ID CHOX AL
 NON TER
 CCF1_ENTFA
ID CCF1 1
 Matches
 RESULT 11
 AC DT DT DE DE DE
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 FEBS Lett. 206:69-72(1986).
 01-07T-1989 (Rel. 12, Created)
01-07T-1989 (Rel. 12, Last sequence update)
05-0TJ-2004 (Rel. 44, Last annotation update)
Sex pheromone cAM373 (Clumping-inducing agent) (CIA).
Barterococus faecalis (Streptococus faecalis).
Bacteria; Firmicutes; Lactobacillales; Enterococcaceae; Enterococcus.
 SEQUENCE.
MEDIINE=87005252; PubMed=3093276;
MOTI M., Tanaka H., Sakagami Y., Isogai A., Fujino M., Kitada C.,
Morit B.A., An F.Y., Clewell D.B., Suzuki A.;
"Isolation and structure of the Streptococcus faecalis sex pheromone,
 Gaps
 Gaps
 P990<u>75;</u>
15-DEC-1998 (Rel. 37, Created)
15-DEC-1998 (Rel. 37, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
05-JUL-2004 (Rel. 44, Last annotation update)
07-Pyclohydrolase I feedback regulatory protein (P35) (Fragment)
Name=Gchir, Synonyms=Gfrp;
Mus musculus (Mouse)
 Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
 SEQUENCE.

BEDILINE-SHOOF(69; PubMed=6997283;

Ohta-Fukuyama M., Miyake Y., Emi S., Yamano T.;

Identification and properties of the prosthetic group of choline
 ;
0
 ..
 -!- MISCELLANEOUS: The N-terminus is possibly responsible for specificity of pheromones to plasmids.
PIR; A25269; A25269.
Alcaligenes sp.
Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales;
 27.3%; Score 9; DB 1; Length 7;
66.7%; Pred. No. 1.8e+06;
.ive 0; Mismatches 1; Indels
 0; Indels
 DB 1; Length 7; . 1.8e+06;
 Direct protein sequencing; Pheromone.
SEQUENCE 7 AA; 734 MW; 75BDD72059C05DB0 CRC64;
 7 AA; 839 MW; 7415B1E457644AC0 CRC64;
 7 AA.
 7 AA.
 27.3%; Score 9; DB 1
100.0%; Pred. No. 1.8
tive 0; Mismatches
 PRT;
 PRT;
 Alcaligenaceae; Alcaligenes.
NCBI_TaxID=512;
 2; Conservative
 STANDARD;
 Conservative
 STANDARD;
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 ;
 MEDLINE=92321768; PubMed=1622206;
MEDLINE=92321768; PubMed=1622206;
Stoffels G., Nissen-Meyer J., Gudmundsdottir A., Sletten K., Holo H., Nes I.F.;
"Purification and characterization of a new bacteriocin isolated from a Carnobacterium sp.";
"Purification whicrobiol. 58:1417-1422(1992).
- I- FUNCTION: Lanthionine-containing peptide antibiotic (lantibiotic).
Active on Gram-positive bacteria.
Antibiotic; Bacteriocin; Direct protein sequencing; Lantibiotic.
 SEQUENCE.
TISSUE-Liver;
Sanchez J.-C., Rouge V., Frutiger S., Hughes G., Yan J.X.,
Hoogland C., Appel R.D., Binz P.-A., Hochstrasser D.F., Cowthorne M.;
Submitted (AUG-1998) to Swiss-Prot.
-: FUNCTION: Mediates tetrahydrobiopterin inhibition of GTP
CYClohydrolase. I. This inhibition is reversed by L-phenylalanine
 Gaps
 Gaps
Mammalia; Butheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 ;
0
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 01-000-1994 (Rel. 29, Created)
01-000-1994 (Rel. 29, Last sequence update)
01-000-4 (Rel. 24, Last sequence update)
05-001-2004 (Rel. 44, Last annotation update)
Lantibiotic carnooin U149 (Fragment).
Carnobacterium sp. (strain U149)
Carnobacterium sp. (strain U149).
Carnobacterium sp. (strain U149).
Carnobacterium sp. (strain U149).
Carnobacterium.
 Query Match 27.3%; Score 9; DB 1; Length 7; Best Local Similarity 75.0%; Pred. No. 1.8e+06; Matches 3; Conservative 0; Mismatches 1; Indels
 Query Match 27.3%; Score 9; DB 1; Length 7; Best Local Similarity 100.0%; Pred. No. 1.8e+06; Matches 2; Conservative 0; Mismatches 0; Indels
 7 AA; 806 MW; 71B5B057273B4700 CRC64;
 7 AA; 786 MW; 741776D05B05B810 CRC64;
 7 AA.
 (By similarity).
-!- SUBUNIT: Homodimer (By similarity).
SWISS-2DPAGE; P99025; MOUSE.
Direct protein sequencing.
 PRT;
 STANDARD;
 NCBI_TaxID=10090;
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SEQUENCE
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P36960;
 RESULT 15
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November 4, 2004, 00:54:10; Search time 92.3333 Seconds (without alignments) 27.196 Million cell updates/sec Run on:

US-09-712-819D-12 score:

1 FTLEISR 7 Sequence:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

2002273 segs, 358729299 residues Searched:

116873 Total number of hits satisfying chosen parameters:

seq length: 0 seq length: 7 Minimum DB Maximum DB Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

geneseqp2003as:\* geneseqp2003bs:\* A\_Geneseq\_23Sep04:\* geneseqp1980s:\* geneseqp1990s:\* geneseqp2000s:\* geneseqp2001s:\* geneseqp2002s:\* geneseqp2004s:\* Database

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

|           |        | Description  | Aar81848 Human afa | Rheum    |          | m        |          |          | Aau24969 Schizophr | Aau26249 Depressio | Aau15313 Schizophr | 0        |          | -        |          | 0        |          | m        | 0        | a        | -1       | 7        | 10       |          |          |          | SC8      |
|-----------|--------|--------------|--------------------|----------|----------|----------|----------|----------|--------------------|--------------------|--------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| SUMMARIES |        | QI           | AAR81848           | AAY41889 | ABB55870 | ABB56283 | ABB55981 | AAU28602 | AAU24969           | AAU26249           | AAU15313           | ABB52190 | ABB52355 | ABG78901 | ABG78730 | ABP58010 | ABP57255 | ABP57203 | ABR59010 | ABR59042 | ADH35821 | ADH35827 | ADN31805 | ADN32134 | ADO78580 | AAY40736 | AAB30074 |
|           |        | DB           | N                  | 7        | 4        | 4        | 4        | 4        | 4                  | 4                  | 4                  | 4        | 4        | Ŋ        | Ŋ        | 9        | 9        | 9        | 9        | 9        | œ        | ω        | ထ        | ω        | ω        | N        | m        |
|           |        | Match Length | 7                  | 7        | 7        | 7        | 7        | 7        | 7                  | 7                  | 7                  | 7        | 7        | 7        | 7        | 7        | 7        | 7        | 7        | 7        | 7        | 7        | 7        | 7        | 7        | 7        | 7        |
| %         | Query  | Match        | 72.7               | Ω        | 72.7     | 72.7     | 72.7     | 72.7     | 72.7               | 72.7               | 72.7               | 72.7     | 72.7     | 72.7     | 72.7     | 72.7     | 72.7     | 72.7     | 72.7     | 72.7     | 72.7     | 72.7     | 72.7     | 72.7     | 72.7     | 69.7     | 69.7     |
|           |        | Score        | 24                 | 24       | 24       |          | 24       |          | 24                 |                    |                    |          |          | 24       | 24       |          | 24       |          | 24       |          |          |          | 24       | 24       | 24       | 23       | 23       |
|           | Result | No.          | н                  | 7        | r        | 4        | ເດ       | 9        | 7                  | ω .                | σ :                | 10       | 11       | 12       | 13       | 14       | 15       | 16       | 17       | 87,      | 13       | 20       | 21       | 22       | 23       | 24       | 25       |

| Aay40738 S4 deriva | Aab30076 Scaffold | Abr45678 Staphyloc | Abr46070 Staphyloc | Abr46854 Staphyloc | Abr44950 Staphyloc | Abr46462 Staphyloc | Abr45342 Staphyloc |              |              | _            | -            |              |              |    | Abr46238 Staphyloc | Abr46630 Staphyloc | Abr47022 Staphyloc |            |              |
|--------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------|--------------|--------------|--------------|--------------|--------------|----|--------------------|--------------------|--------------------|------------|--------------|
| 7 2 AAY40738       | 7 3 AAB30076      | 5 6 ABR45678       | 6 6 ABR46070       |                    |                    | 5 6 ABR46462       | 6 6 ABR45342       | 7 2 AAR07656 | 7 2 AAY42013 | 7 2 AAW82668 | 7 6 ABU09135 | 7 8 ADI02925 | 5 6 ABR45118 |    | 6 ABR46238         | 6 6 ABR46630       | 6 ABR47022         | 6 ABR45454 | , 2 AAR72775 |
| 22 66.7            | .7                | 9.09               | G                  | 9.09               | 20 60.6 6          | 9.09               | 9.09               | .09          |              |              | .09          | 20 60.6 7    |              | 9. | 57.6               | 57.6               | 57.6               | 19 57.6 6  | 19 57.6 7    |
| 26                 | 27                | 28                 | 56                 | 30                 | 31                 | 32                 | 33                 | 34           | 35           | 36           | 37           | 38           | 39           | 40 | 41                 | 42                 | 43                 | 44         | 45           |

## ALIGNMENTS

AAR81848 standard; peptide; 7 AA. (first entry) 16-MAY-1996 AAR81848; RESULT 1 AAR81848 

Human afamin tryptic fragment FX20.

Human; afamin; serum protein family; albumin; alpha-foetoprotein; plasma; vitamin D binding protein; homology; post-translational processing; chromatography; Primer; PCR, amplification; probe; rheumatoid arthritis; ischaemia-reperfusion injury; ARDS; cardiopulmonary bypass; sepsis; toxic plasma substance; inflammation.

Homo sapiens.

WO9527059-A1

12-OCT-1995.

95WO-US004075. 31-MAR-1995; 94US-00222619. 31-MAR-1994;

(AMGE-) AMGEN INC. (UYRQ ) UNIV ROCKEFELLER.

Wright SD; Wurfel MM, Lyons DE, Lichenstein HS,

WPI; 1995-358634/46.

Human afamin or a variant and poly:nucleotide(s) encoding it - a human serum protein with activities in common with other members of this family.

Example 3; Page 45; 97pp; English.

Peptides AAR81847-54 are tryptic peptide fragments from human afamin (AAR81845) novel member of the human serum protein family. The fragments were used to design primers and probes (AAT00786-98) for the cloning of the afamin gene (AAT00785) from human liver cDNA. Afamin is thought to have similar properties to human albumin, alpha-foetoprotein and vitamin b binding protein due to homology with these proteins. The gene encodes a mature protein of 66576 daltons without post-translational processing (ca. 87000 daltons with post-translational processing). The protein was isolated from human plasma by a conventional chromatographic methods. The

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used in the exemplification of the present invention
 Sequence 7 AA;
 Matches
 Matches
 RESULT 3
 ABB55870
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 A method has been developed for the diagnosis of human rheumatoid arthritis (RA) using two-dimensional electrophoresis to generate a two-dimensional array of features. The method can be used for screening, diagnosis and prognosis of RA in a subject or for monitoring the effect of an anti-RA drug or therapy administered to a subject. The method comprises: (a) analysing a sample of serum or plasma and optionally synovial fluid by two-dimensional electrophoresis, to generate a two-dimensional array of features; (b) identifying at least one chosen of RA; and (c) comparing the abundance of each chosen feature in the complex with the abundance of that chosen feature in the cample with the abundance of that chosen feature in plasma from or more persons without RA, where the relative abundance of the chosen feature of RA in the subject. The method can also be used in clinical studies for testing drugs for therapy of RA, for purification of RA-compounds that promote or inhibit their activity, which are then used as the prosone of encoding RADF) prodeting on the used in clinical subject or adjagnostic feature (RADF) proteins can be used to identify compounds that promote or inhibit their activity, which are then used as protected encoding RADFs can be used in gene therapy or protocols. AAY41844 to AAY42100 represent RPI peptides, AAY42101 to AAY42103 represent expression reference protein isoform peptides and AAZ25066 to AAX25068 represent degenerate probes for RPIs, which are all
 ö
 protein can be used to ameliorate ischaemia-reperfusion injury, rheumatoid arthritis, ARDS, cardiopulmonary bypass, sepsis, toxic plasma substances released after inflammation, etc
 Gaps
 Human; rheumatoid arthritis; RA; diagnosis; RPI; RADF; detection; rheumatoid arthritis diagnostic feature; ERPI; synovial fluid; rheumatoid arthritis diagnostic protein isoform; screening; expression reference protein isoform; prognosis.
 ;
0
 Rheumatoid arthritis diagnostic protein isoform peptide #40.
 Diagnosis of human rheumatoid arthritis by two-dimensional
 Score 24; DB 2; Lengtn ';
Pred. No. 1.78+06;
 0; Mismatches
 (OXFO-) OXFORD GLYCOSCIENCES UK LTD.
 Disclosure; Page 18; 157pp; English.
 Townsend RR;
 AAY41889 standard; peptide; 7 AA.
 99WO-GB000763.
 98GB-00005477
 72.7%;
llarity 71.4%;
Conservative
 (first entry)
 Parekh RB, Patel TP,
 WPI; 1999-571871/48
 ~
 FTFEYSR 7
 Local Similarity
 FTLEISR
 electrophoresis.
 Sequence 7 AA;
 15-MAR-1999;
 Homo sapiens
 WO9947925-A2
 .3-MAR-1998;
 09-DEC-1999
 23-SEP-1999.
 AAY41889;
 Query Match
 Best Loca
Matches
 RESULT 2
 AAY41889
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 The invention relates to screening, diagnosis or prognosis of Vascular Dementia (VD) in a subject comprising analysing body fluid from the subject by 2-dimensional (2-D) electrophoresis to generate a 2-D array of features containing at least one chosen feature whose relative abundance correlates with the presence, absence, stage or severity of VD or predicts the onset or course of VD, especially detecting in a sample of exebrospinal fluid (CSP) from the subject one of 223 VD-associated protein isoforms (VPIS) (ABB55801-ABB5625) as fully defined in the specification. Detecting VD-associated features and VPI is useful for the screening, diagnosis or prognosis of VD, for determining the stage or severity of VD, for identifying a subject at risk of VD or for monitoring the effect of therapy administered to a subject having VD. Nucleic acids encoding a VPI or inhibiting the function of a VPI are useful for the treatment of VD and for gene therapy
 ö
 for
 Gaps
 Vascular Dementia; VD; VD-associated protein isoform; VPI; screening;
 Gaps
 Screening, diagnosis or prognosis of vascular dementia (VD), useful determining stage of VD and monitoring the effect of VD therapy, comprises analyzing body fluid by 2-dimensional electrophoresis for features correlated with VD.
 .
 ..
 1; Indels
 Length 7;
 1; Indels
Score 24; DB 2; Length 7; Pred. No. 1.7e+06;
 Vascular dementia-associated protein isoform (VPI) 70.
 Score 24; DB 4; I
Pred. No. 1.7e+06;
2; Mismatches 1;
 2; Mismatches
 (OXFO-) OXFORD GLYCOSCIENCES UK LID.
 diagnosis; prognosis; gene therapy.
 Rohlff C;
 Claim 6; Page 31; 151pp; English.
 ABB55870 standard; peptide; 7 AA.
 72.7%;
57.1%;
 15-MAR-2000; 2000GB-00006285.
24-NOV-2000; 2000GB-00028734.
28-NOV-2000; 2000US-00724391.
 14-MAR-2001; 2001WO-GB001106.
 72.7%;
57.1%;
 (first entry)
 Herath HMAC, Parekh RB,
 4; Conservative
 4; Conservative
 WPI; 2001-557937/62
 Query Match
Best Local Similarity
 1 FILEISR 7
 7
 Query Match
Best Local Similarity
 1 FTLEISR
 1 YTFELSR
 Sequence 7 AA;
 WO200169261-A2.
 24-NOV-2000;
28-NOV-2000;
 15-FEB-2002
 20-SEP-2001
 ABB55870;
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VD; VD-associated protein isoform; VPI; screening;

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Screening, diagnosis or prognosis of vascular dementia (VD), useful for determining stage of VD and monitoring the effect of VD therapy, comprises analyzing body fluid by 2-dimensional electrophoresis for features correlated with VD.
 Vascular dementia-associated protein isoform (VPI) 181.
 (OXFO-) OXFORD GLYCOSCIENCES UK LID
 diagnosis; prognosis; gene therapy
 15-MAR-2000; 2000GB-0006285.
24-NOV-2000; 2000GB-00028734.
28-NOV-2000; 2000US-00724391.
 14-MAR-2001; 2001WO-GB001106.
 15-FEB-2002 (first entry)
 WPI; 2001-557937/62.
 Vascular Dementia;
 WO200169261-A2.
 Herath HMAC,
 Homo sapiens
 20-SEP-2001
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 The invention relates to screening, diagnosis or prognosis of Vascular

Dementia (VD) in a subject comprising analysing body fluid from the

subject by 2-dimensional (2-D) electrophoresis to generate a 2-D array of

features containing at least one chosen features whose relative abundance

correlates with the presence, absence, stage or severity of VD or

predicts the onset or course of VD, especially detecting in a sample of

cerebrospinal fluid (CSF) from the subject one of 223 VD-associated

protein isoforms (VDIS) (ABB55801-ABB56295) as fully defined in the

specification. Detecting VD-associated features and VPI is useful for the

specification, of prognosis of VD, for determining the stage or

severity of VD, for identifying a subject at risk of VD or for monitoring

the effect of therapy administered to a subject having VD. Nucleic acids

encoding a VPI or inhibiting the function of a VPI are useful for the

treatment of VD and for gene therapy
 ö
 Screening, diagnosis or prognosis of vascular dementia (VD), useful for determining stage of VD and monitoring the effect of VD therapy, comprises analyzing body fluid by 2-dimensional electrophoresis for features correlated with VD.
 Vascular Dementia; VD; VD-associated protein isoform; VPI; screening;
 Gaps
 .,
 Score 24; DB 4; Length 7;
Pred. No. 1.7e+06;
1; Mismatches 1; Indels
 Vascular dementia-associated protein isoform (VPI) 483.
 (OXFO-) OXFORD GLYCOSCIENCES UK LID.
 Rohlff C;
 diagnosis; prognosis; gene therapy
 Claim 6; Page 40; 151pp; English.
 ABB56283 standard; peptide; 7 AA
 2;
 15-MAR-2000; 2000GB-00006285.
24-NOV-2000; 2000GB-00028734.
28-NOV-2000; 2000US-00724391.
 72.7%;
57.1%;
 14-MAR-2001; 2001WO-GB001106
 (first entry)
 Herath HMAC, Parekh RB,
 4; Conservative
 WPI; 2001-557937/62.
: | |: | |
1 YTFELSR 7
 Query Match
Best Local Similarity
 WO200169261-A2
 Sequence 7 AA;
 Homo sapiens.
 15-FEB-2002
 20-SEP-2001
 Matches
```

Rohlff C;

Parekh RB,

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The invention relates to screening, diagnosis or prognosis of Vascular Dementia (VD) in a subject comprising analysing body fluid from the subject by 2-dimensional (2-D) electrophoresis to generate a 2-D array of features containing at least one chosen feature whose relative abundance correlates with the presence, absence, stage or severity of VD or predicts the onset or course of VD, especially detecting in a sample of protein isoforms (VPIS) (ABB55801-ABB56295) as fully defined in the specification. Detecting VD-associated features and VPI is useful for the soreening, diagnosis or prognosis of VD, for determining the stage or severity of VD, for identifying a subject at risk of VD or for monitoring the effect of therapy administered to a subject having VD. Nucleic acids encoding a VPI and for gene therapy
 ö
 Human; depression associated protein isoform; tryptic digest peptide; DPI; cerebrospinal fluid; CSF; BAD; bipolar affective disorder; neuropsychiatric disorder; bipolar mood disorder; neuroleptic; maniac-depressive illness; schizoaffective disorder.
 Gaps
 ;
 Score 24; DB 4; Length 7;
Pred. No. 1.7e+06;
2; Mismatches 1; Indels
Claim 6; Page 33; 151pp; English.
 AAU28602 standard; peptide; 7 AA.
 DPI tryptic digest peptide #199.
 72.7%;
57.1%;
 03-JAN-2002 (first entry)
 4; Conservative
 Query Match
Best Local Similarity
Matches 4; Conserv
 5
 1 YTFELSR 7
 1 FTLEISR
 Sequence 7 AA;
 AAU28602;
```

ABB55981 standard; peptide; 7 AA.

RESULT 5 ABB55981 ID ABB XX AC ABB

ABB55981;

1 FTLEISR 7 YTFELSR

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Claim 8; Page 34; 163pp; English
28-DEC-2000; 2000US-00750395.
 (first entry)
 4; Conservative
 Parekh RB,
 WPI; 2001-582081/65.
 WPI; 2001-570624/64.
 1 FTLEISR 7
 : | |: | 1
1 YTFELSR 7
 Query Match
Best Local Similarity
 WO200163294-A2.
 Sequence 7 AA;
 Herath HMAC,
 Homo sapiens
 Herath HMAC,
 18-DEC-2001
 30-AUG-2001.
 Matches
 RESULT
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 ÷
 The present invention relates to the identification of depression associated protein isoforms (DPIS), particularly the tryptic digest peptides of these proteins. Some of the DPIS (AAU28404-AAU28625) described are decreased in the cerebrospinal fluid (GSP) of BAD (bipolar affective disorder) subjects, whilst other DPIS (AAU28626-AAU28837) are increased in BAD subjects. Also described are peptide sequences identified from DPI-45 and DPI-213 and the nucleic acid sequence they are encoded by. The sequences of the invention are useful for clinical screening, diagnosis, prognosis, therapy and prophylaxis of neuropsychiatric disorders e.g. BAD (also known as bipolar mood disorder, spl), maniac-depressive illnesses, attention deficit disorders, schizoaffective disorders, and unipolar affective disorders. The present sequence represents one of the DPI tryptic digest peptides of the present
 Schizophrenia-associated protein isoform; SPI; SPI-206; SPI-238; SPI-240; neuroleptic; gene therapy; cerebrospinal fluid; serum; plasma.
 Novel nucleic acid encoding a protein associated with bipolar affective disorder, which is used for diagnosis, prophylaxis and therapy of neuropsychiatric disorders, such as bipolar affective disorder.
 Gaps
 ;
0
 Schizophrenia-Associated Protein Isoform (SPI) peptide #198.
 Tyson KL;
 1; Indels
 Length 7;
 Terrett JA,
 Score 24; DB 4;]
Pred. No. 1.7e+06; 2; Mismatches 1
 (OXFO-) OXFORD GLYCOSCIENCES UK LTD.
 Rohlff C,
 Disclosure; Page 34; 153pp; English
 AAU24969 standard; peptide; 7 AA.
 23-FEB-2001; 2001WO-GB000792.
 24-FEB-2000; 2000GB-00004415.
 2000GB-00004412,
 72.7%;
 23-FEB-2001; 2001WO-GB000786.
 2000GB-00030050
2000US-0254830P
 (first entry)
 Herath HMAC, Parekh RB,
 4; Conservative
 WPI; 2001-570626/64.
 : | |: | |
1 YTFELSR 7
 1 FTLEISR 7
 Local Similarity
 WO200162785-A2
 WO200162787-A1.
 Sequence 7 AA;
 Homo sapiens
 24-FEB-2000;
 Homo sapiens.
 08-DEC-2000;
 18-DEC-2001
 30-AUG-2001
 nvention
 AAU24969;
 Query Match
 Matches
 RESULT 7
 AAU24969
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DD
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Preparation for diagnosing or treating bipolar affected disorder (BAD) or unipolar depression, or for screening for modulators, comprises a BAD-associated protein isoform.
 0
 New schizophrenia associated protein isoforms and encoding nucleic acid molecules, useful for treatment, diagnosis and prognosis of schizophrenia and screening for potential drugs for treatment and new drug targets.
 The sequence represents a schizophrenia-associated protein isoform (SPI). These protein isoforms, e.g. SPI-206, SPI-338 and SPI-240 are detectable in cerebrospinal fluid, serum or plasma and are useful markers of schizophrenia. The sequences can be used for treatment and diagnosis of schizophrenia, screening, prognosis, monitoring the results of therapy, identifying patients most likely to respond to a particular therapy and identification of new targets for drug treatment. SPI DNA is useful as a nucleic acid probe to detect the presence of nucleic acids or SPIs
 Human, Bipolar Affective Disorder, BAD, Depression-Associated feature, DF, Depression-Associated protein isoform; DFI, Cerebro-spinal fluid, CSF, antidepressant, antimanic, nootropic, tranquiliser, neuroleptic, attention deficient disorder, schizoaffective disorder; unipolar affective disorder.
 Gaps
 0;
 Tyson KL;
 Score 24; DB 4; Length 7; Pred. No. 1.7e+06; 2; Mismatches 1; Indels
 Terrett JA,
 Depression-Associated Protein isoform DPI-208.
 (OXFO-) OXFORD GLYCOSCIENCES UK LTD.
 Rohlff C,
 Disclosure; Page 32; 148pp; English.
 Parekh RB, Rohlff C;
(OXFO-) OXFORD GLYCOSCIENCES UK LTD.
 AAU26249 standard; peptide; 7 AA.
 24-FEB-2000; 2000GB-00004412.
08-DEC-2000; 2000GB-00030050.
12-DEC-2000; 2000US-0254830P.
 72.78;
57.18;
 23-FEB-2001; 2001WO-GB000791.
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The invention relates to a preparation comprising an isolated Bipolar Affected Disorder (BAD)-Associated Protein Isoform (DPIS). The DPI's are used to screen, diagnose or prognose of BAD or unipolar depression, identify a determine the stage or severity of BAD or unipolar depression, identify a subject at risk of developing BAD or unipolar depression, or monitor the stage or severity of BAD or unipolar depression, identify a subject at risk of developing BAD or unipolar depression, or monitor the cffect of therapy in a subject. They are also used to screen for or identify agents that interact with a DPI. These agents, antibodies against the DPIS, and nucleic acids encoding the DPIs are used to treat or the DPIS and unipolar depression. Diseases that can be treated are attention deficient disorder. The DPIs are used in proteomics. The DPIs are used in proteomics of EAD or unipolar depression overcomes the problems of using gene expression analysis, such as not being able to obtain central nervous system (CNS) tissue from a living patient under normal circumstances. The DPISELL NATIONAL ADDITIONAL CENTRAL ADDITIONAL ADDITIONAL CORPORATIONAL ADDITIONAL ADDITIONAL CORPORATIONAL ADDITIONAL CORPORATIONAL ADDITIONAL ADDITIONAL ADDITIONAL ADDITIONAL CORPORATIONAL ADDITIONAL ADDITONAL ADDITIONAL ADDITIONAL ADDITIONAL ADDITIONAL ADDITIONAL ADDITONAL ADDITIONAL ADDITIONAL ADDITONAL ADDIT
 subjects having BAD
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Sequence 7 AA;

Gaps .. 72.7%; Score 24; DB 4; Length 7; 57.1%; Pred. No. 1.7e+06; ive 2; Mismatches 1; Indels 4; Conservative Best Local Similarity Matches 4; Conserv Query Match

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7 1 FTLEISR : | |: | |: | | 1 XTFELSR

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RESULT 9 AAU15313

AAU15313 standard; peptide; 7 AA AAU15313; Schizophrenia-associated isoform peptide #198.

(first entry)

24-OCT-2001

Schizophrenia; neuroleptic; diagnostic; neuropsychiatric disorder; neurological disorder; neuropathy.

Homo sapiens.

WO200163293-A2

30-AUG-2001

23-FEB-2001; 2001WO-GB000783.

24-FEB-2000; 2000GB-00004415. 28-DEC-2000; 2000US-00750395.

(OXFO-) OXFORD GLYCOSCIENCES UK LTD.

Rohlff C; Herath HMAC, Parekh RB,

WPI; 2001-502868/55.

Diagnosing and monitoring Schizophrenia by detecting the presence of Schizophrenia Associated Features and Schizophrenia Associated Protein Isoforms in samples of cerebrospinal fluid.

Claim 6; Page 32; 160pp; English.

The invention relates to methods and compositions for screening, diagnosis and prognosis of Schizophrenia. The method involves detecting the presence of Schizophrenia (SCH) Associated Features (SFs) and SCH Associated Protein Isoforms (SPIS) in samples, e.g. by electrophresis, immunoassay or hybridisation assay, for diagnosing and monitoring SCH, studying the effectiveness of treatments and for identifying potential therapeutic agents. The method is used for (1) screening or diagnosis of 

The invention relates to methods for the screening, diagnosis and prognosis of Alzheimer's disease. The methods involve the detection of Alzheimer's Disease-Associated Peatures (AFs) and Alzheimer's Disease-Associated Peatures in cerebrospinal fluid, serum or

SCH and the relative abundance of at least 1 chosen feature correlates with the presence or absence of SCH; and (2) monitoring the effect of therapy administered to a subject with SCH and the relative abundance of at least 1 chosen feature which correlates with the severity of SCH. The expression and activity of the SFS. SPIs and related molecules (e.g. secondary messengers) are studied to diagnose SCH, monitor the progress of the disorder and the effectiveness of treatment and as targets to identify and produce potential therapeutic agents for the treatment of SCH. The paucity of detectable neuralgic defects distinguishes neuropsychiatric disorders with as SCH from neurological disorders, where manifestations of anatomical and biochemical changes have been identified in many cases. Consequently the identification and characterisation of cellular and/or molecular causative defects and neuropathies are necessary for improved treatment of neuropsychiatric disorders. AAUIS114-AAUIS762 represent the manno acid sequences of schizophrenia-associated is soforms used in the method of the invention ö Screening for Alzheimer's disease in a mammal, by making two-dimensional array of a feature whose relative abundance correlates with disease, and comparing with abundance of the feature in samples of healthy persons. Gaps Human; neuroprotective; nootropic; gene therapy; vaccine; Alzheimer's disease; Alzheimer's Disease-Associated Feature; AF; Alzheimer's Disease-Associated Protein Isoform; API; tryptic digest; Expression Reference Protein Isoform; ERPI; proteolysis. ., Parekh RB; Herath HMAC, Kimmel LH, Parekh RB lber BM, Stiger TR, Sunderland PT; 1; Indels Length 7; Score 24; DB 4; I Pred. No. 1.7e+06; 2; Mismatches Human API-146 tryptic digest peptide #1. Friedman DL, Herath HMAC
Rohlff C, Silber BM, St
, White F, Williams SA; (OXFO-) OXFORD GLYCOSCIENCES UK LTD. (PFIZ ) PFIZER INC. ABB52190 standard; peptide; 7 AA. Example; Page 30; 162pp; English. 72.7%; 57.1%; 03-APR-2001; 2001WO-US010908. 03-APR-2000; 2000US-0194504P. 28-NOV-2000; 2000US-0253647P. (first entry) 4; Conservative WPI; 2001-639384/73. Query Match Best Local Similarity : | |: | 1 XTFELSR 1 FTLEISR WO200175454-A2. Sequence 7 AA; 08-FEB-2002 Townsend RR, Homo sapiens. 11-0CT-2001 Durham KL, ABB52190; Matches RESULT 10 \$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$ ò 셤  0

Gaps

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Indels

Pred. No. 1.7e+06; Mismatches

2;

4; Conservative

Similarity

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: | |: | | 1 YTFELSR 1 FTLEISR

57.1%;

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Best Local
Matches
 RESULT 12
 ABG78901
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 The invention relates to methods for the screening, diagnosis and prognosis of Alzheimer's disease. The methods involve the detection of Alzheimer's Disease-Associated Features (AFS) and Alzheimer's Disease-Associated Features (AFS) and Alzheimer's Disease-Associated Protein Isoforms (AFFs) in cerebrospinal fluid, serum or plasma. The abundance of the AFS and APIs is then normalised to an Expression Reference Protein Isoform (ERP!) in order to determine whether a patient is suffering from, or has a predisposition to, Alzheimer's Disease. The relative abundance of the AFS and APIs correlates with the severity of Alzheimer's Disease. The present sequence is a peptide produced from an API by proteolysis
 ;
0
plasma. The abundance of the AFs and APIs is then normalised to an Expression Reference Protein Isoform (BRPI) in order to determine whether a patient is suffering from, or has a predisposition to. Alzheimer's Disease. The relative abundance of the AFs and APIs correlates with the severity of Alzheimer's Disease. The present sequence is a peptide produced from an API by proteolysis
 Screening for Alzheimer's disease in a mammal, by making two-dimensional array of a feature whose relative abundance correlates with disease, and comparing with abundance of the feature in samples of healthy persons.
 Human; neuroprotective; nootropic; gene therapy; vaccine;
Alzheimer's disease; Alzheimer's Disease-Associated Feature; AF;
Alzheimer's Disease-Associated Protein Isoform; API; tryptic digest;
Expression Reference Protein Isoform; ERPI; proteolysis.
 Gaps
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 LH, Parekh RB;
Sunderland PT;
 Score 24; DB 4; Lengtu ,,
Pred, No. 1.76+06;
---hag 2; Indels
 Durham KL, Friedman DL, Herath HMAC, Kimmel Potter DM, Rohlff C, Silber BM, Stiger TR, Townsend RR, White F, Williams SA;
 0; Mismatches
 Human API-125 tryptic digest peptide #8.
 OXFORD GLYCOSCIENCES UK LTD. PFIZER INC.
 Example; Page 34; 162pp; English.
 ABB52355 standard; peptide; 7 AA.
 03-APR-2001; 2001WO-US010908.
 03-APR-2000; 2000US-0194504P.
28-NOV-2000; 2000US-0253647P.
 Query Match 72.7%;
Best Local Similarity 71.4%;
Matches 5; Conservative
 (first entry)
 WPI; 2001-639384/73.
 FTLEISR 7
 5
 FTFEYSR
 WO200175454-A2.
 Sequence 7 AA;
 Sequence 7 AA;
 Homo sapiens.
 08-FEB-2002
 11-OCT-2001
 ABB52355;
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 (OXFO-) (PFIZ)
 RESULT 11
 ABB52355
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72.7%; Score 24; DB 4; Length 7;

Query Match

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This invention relates to a novel method for screening or diagnosing multiple sclerosis (MS) in a subject to determine the stage or severity of MS. to identify a subject to developing MS or to monitor the effect of a therapy administered. The method comprises analysing a sample of fect of a therapy administered. The method comprises analysing a sample cody fluid from the subject by two-dimensional electrophoresis and body fluid from the subject by two-dimensional electrophoresis and detecting the presence of multiple sclerosis-associated features (MSPS), or multiple sclerosis-associated protein; soforms (MSPIS). The MSF's of the invention correspond to spots identified on a 2D gel these proteins can way have antihifalmmatory or neuroprotective activity. The methods of the invention and the compositions are useful for clinical screening.

Considerable of MS, for monitoring the effectiveness of MS contents most likely to respond to a particular therapeutic treatment and for screening and developing drugs for treatment of MS. Agents that considered the expression or activity of an MSPI are useful for prevent or delay the progression of MS, or to ameliorate the symptoms MS. Nucleic confers fragments are useful for promoting NSPI function by gene cothers comprising a generoe encoding an MSPI function by gene therapy. The present sequence represents a human multiple sclerosis
 ö
 Screening or diagnosing multiple sclerosis (MS), useful for e.g. determining the stage or severity of MS, comprises detecting the presence of MS-associated features or protein isoforms by 2-dimensional
 Multiple sclerosis associated feature (MSF) tryptic digest peptide #389.
 Gaps
 Multiple sclerosis; MS; multiple sclerosis associated feature; MSAF; human; multiple sclerosis-associated protein isoform; MSPI;
 ..
 ne present sequence represents a human multiple feature tryptic digest peptide of the invention
 1; Indels
 Length 7;
 72.7%; Score 24; DB 5; L 57.1%; Pred. No. 1.7e+06; ive 2; Mismatches 1;
 (OXFO-) OXFORD GLYCOSCIENCES UK LID.
 Disclosure; Page 39; 128pp; English.
 ΰ
 antiinflammatory; neuroprotective.
ABG78901 standard; peptide; 7 AA.
 25-JAN-2002; 2002WO-GB000330
 26-JAN-2001; 2001US-0264404P.
20-NOV-2001; 2001US-0331647P.
 (first entry)
 4; Conservative
 Herath HMAC, Parekh RB,
 WPI; 2002-599812/64
 Best Local Similarity
 electrophoresis
 Sequence 7 AA;
 WO200259604-A2
 Homo sapiens.
 29-NOV-2002
 01-AUG-2002
 Query Match
 ABG78901;
 Matches
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Prostate cancer; marker; vitamin D binding protein; VDBP; human;

therapy.

diagnosis; gene

WO200275314-A2.

26-SEP-2002.

Homo sapiens.

30-NOV-2000; 2000US-0250284P. 08-NOV-2001; 2001US-0344948P. 30-NOV-2001; 2001WO-US045031

Hlavaty J, Briggman JV; (MATR-) MATRITECH INC.

WPI; 2003-067369/06.

Prostate cancer marker protein peptide fragment.

(first entry)

11-FEB-2003

ABP58010;

ABP58010 standard; peptide; 7 AA.

RESULT 14

ABP58010

: | |: | | 1 YTFELSR 7

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This invention relates to a novel method for screening or diagnosing multiple sclerosis (MS) in a subject to determine the stage or severity of MS, to identify a subject at risk of developing MS or to monitor the effect of a therapy administered. The method comprises analysing a sample body fluid from the subject by two-dimensional electrophoresis and detecting the presence of multiple sclerosis-associated features (MSFs), or multiple sclerosis-associated protein isoforms (MSFs), the invention correspond to spots identified on a 2D gel these proteins or may have antilnflammatory or neuroprotective activity. The methods of the invention and the compositions are useful for clinical screening, clineant and treatment of MS, for monitoring the effectiveness of MS treatment, for selecting participants in clinical trials, for identifying CF or screening and developing drugs for treatment of MS. Agants that condulate the expression or activity of an MSPI are useful for treatment of MS, for prevent or delaying the onset or development of MS, to prevent or correlation or delaying the onset or development of MS, incleic correlation or delaying the onset or development of MS, incleic correlation or delaying the onset or development of MS, incleic correlation or delaying the onset or development of MS, incleic correlation or delay the progression of MS, or to an antilotate the apprecase of MS, or to an activity of an MSPI are useful for treatment of MS, incleic correlation or delaying the onset or development of MS, incleic correlation or delaying the onset or development of MS, incleic correlation or delaying the onset or development of MS incleic correlation or delaying the onset or development of MS incleic correlations and maniforate the symptoms MS. Mucleic correlations and maniforate the symptoms MS. Mocleic correlations and maniforate the apprecasion of MS, or to an antilotate the apprecasion of MS, or to an activity of MS incleic correlations and development of MS incleic correlations and development of MS incleic c
 Screening or diagnosing multiple sclerosis (MS), useful for e.g. determining the stage or severity of MS, comprises detecting the presence of MS-associated features or protein isoforms by 2-dimensional
 Multiple sclerosis associated feature (MSF) tryptic digest peptide #218.
 acids comprising a sequence encoding an MSPI. MSPI-related polypeptide, or their fragments are useful for promoting MSPI function by gene therapy. The present sequence represents a human multiple sclerosis associated feature tryptic digest peptide of the invention
 Multiple sclerosis; MS; multiple sclerosis associated feature; MSAF; human; multiple sclerosis-associated protein isoform; MSPI; antiinflammatory; neuroprotective.
 Score 24; DB 5; Length 7; Pred. No. 1.7e+06; 2; Mismatches 1; Indels
 Disclosure; Page 26; 128pp; English.
 (OXFO-) OXFORD GLYCOSCIENCES UK LID.
 Rohlff C;
 ABG78730 standard; peptide; 7 AA.
 25-JAN-2002; 2002WO-GB000330,
 26-JAN-2001; 2001US-0264404P.
20-NOV-2001; 2001US-0331647P.
 72.7%;
57.1%;
 29-NOV-2002 (first entry)
 Query Match
Best Local Similarity 57.1.
 Herath HMAC, Parekh RB,
 WPI; 2002-599812/64.
7
 : | |:||
YTFELSR 7
 1 FTLEISR
 electrophoresis
 WO200259604-A2.
 Sequence 7 AA;
 Homo sapiens
 01-AUG-2002,
 ABG78730;
 RESULT 13
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Diagnosing or treating prostrate cancer by detecting in a sample isolated from the individual the presence of prostate cancer-associated protein.
 Gaps
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 i; Indels
 72.7%; Score 24; DB 6; Length 7; 57.1%; Pred. No. 1.7e+06;
 2; Mismatches
 ABP57255 standard; peptide; 7 AA.
 Claim 1; Page 41; 63pp; English.
 4; Conservative
 Best Local Similarity
 : | |: | |
1 YTFELSR 7
 1 FTLEISR
 Sequence 7 AA;
 Query Match
 datches
8
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The present sequence is that of a peptide fragment of a novel human 50.8 kDa prostate cancer-associated protein that has been identified as a continguist view marker for prostate cancer. The novel protein includes a polypeptide that is related to human serum vitamin D binding protein controlled. The present peptide corresponds to amino acids 346-35.05 this VDBP allele. It is one of a series of peptides (see ABP58005-16) that distinguish VDBP-related proteins from other proteins, or which may be characterised as binding specifically to an anti-VDBP antibody. CC VDBP-related proteins are detectable at a higher concentration in serum from anammal, e.g. a human, with prostate cancer relative to serum from a healthy mammal and can therefore be used as prostate cancer markers. CC They permit the rapid detection, preferably before metastases occur, of prostate cancer. A target prostate cancer-associated protein may be concerted using a labelled antibody capable of binding specifically to the protein. Prostate cancer-associated proteins, and nucleic acids encoding them, are also useful as targets for treating prostate cancer, and as indicators for monitoring the efficiency of prostate cancer therapy
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0
 ABP57255
 RESULT 15
ABP57255
ID ABP57
XX
AC ABP57
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Gaps 0; 4, 2004, 01:18:14

Search completed: November Job time: 94.3333 secs

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The present invention describes a method for screening, diagnosing or determining the stage or severity of breast cancer, identifying a subject at risk of developing breast cancer, by generating a two-dimensional array of features composition breast cancer-associated dimensional array of features comprising breast cancer-associated features (BFS). Also described: (1) an antibody capable of immunospecifically binding to one of the BPIS; (2) a pharmaceutical compositions comprising: (a) a BPI, or a nucleic acid encoding a BPI, and a carrier; or (b) the antibody of (1), or a fragment or derivative of the antibody, and a carrier; (3) screening for agents that interact with one carriers or a screening for or identifying agents that modulate the carriers or activity of one or more BPIS, a BPI fragment, a BPI-related composition, (4) screening for or identifying agents that modulate the carression or activity of one or more BPIS, a BPI fragment, a BPI-related composition, and kits comprising and (5) treating or preventing complements. Delated and kits comprising and (5) treating or preventing compression or activity of breast cancer. BPIS, a BPI fragment, a BPI-related composition can be used for screening, diagnosing or determining compressed to a subject with breast cancer. The antibodies, BPIS, or an agent that modulates the activity administered to a subject with breast cancer. The antibodies, BPIS, or mandent or preventing breast cancer. The antibodies, BPIS, or mandent or preventing breast cancer. The ABPS7104 to ABPS7250 represent breast cancer associated tryptic digest composition of the present invention core and in the exemplification of the present invention core.
 Screening, diagnosing or determining the stage or severity of breast cancer, comprises analyzing and quantitatively detecting Breast Cancer-Associated Features or Breast Cancer-Associated Protein Isoforms in a biological sample.
 Breast cancer associated feature; BF; BPI; breast cancer; diagnosis; breast cancer associated protein isoform; cytostatic; gene therapy.
 Breast cancer associated tryptic digest peptide SEQ ID NO:154.
 Score 24; DB 6; Length 7; Pred. No. 1.7e+06; 2; Mismatches 1; Indels
 (OXFO-) OXFORD GLYCOSCIENCES UK LTD.
 Example; Page 77; 88pp; English.
 02-MAY-2001; 2001GB-00010790.
27-JUL-2001; 2001GB-00018385.
14-AUG-2001; 2001GB-00019791.
16-AUG-2001; 2001GB-00028062.
22-NOV-2001; 2001GB-00028062.
 h 72.7%;
Similarity 57.1%;
4; Conservative ;
 02-MAY-2002; 2002WO-GB002022.
16-APR-2003 (first entry)
 WPI; 2003-175048/17.
 Query Match
Best Local Similarity
Matches 4; Conserv
 Sequence 7 AA;
 WO200288750-A2
 Homo sapiens.
 Herath HMAC;
 07-NOV-2002
 Synthetic.
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Gaps

0;

1 FTLEISR

8

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Sequence 7, Application US/09998909
Patent No. US20020164664A1
GENERAL INFORMATION:
APPLICANT: Hlavaty, John
 Similarity 57.1%;
4; Conservative ;
 ORGANISM: Homo sapiens
 : | |:||
YTFELSR
 1 FTLEISR
 US-09-791-378-198
 ; OKGANISM: HOM(
US-09-791-378-198
 RESULT 2
US-09-998-909-7
 Query Match
Best Local S
Matches 4
 TYPE: PRT
 LENGTH:
 8
 à
 Sequence 7, Appli
Sequence 205, App
Sequence 145, App
Sequence 145, App
Sequence 198, App
Sequence 198, App
Sequence 105, App
Sequence 105, App
Sequence 52, App
Sequence 52, App
Sequence 15, App
Sequence 154, App
 Sequence 198, App
 4, 2004, 01:23:27; Search time 69.3333 Seconds (without alignments) 32.733 Million cell updates/sec
 Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
 Description
 '(gnz_6/ptodata/2/pubpaa/US07_PUBCOMB.pep:*
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'(gnz_6/ptodata/2/pubpaa/US11_NEW_PUB.pep:*
'(gnz_6/ptodata/2/pubpaa/US11_NEW_PUB.pep:*
'(gnz_6/ptodata/2/pubpaa/US11_NEW_PUB.pep:*
GenCore version 5.1.6
(c) 1993 - 2004 Compugen Ltd.
 US-09-791-378-198
US-09-998-909-7
US-09-826-290-205
US-09-826-290-370
US-09-791-393-145
US-09-791-389-145
US-09-791-389-145
US-09-791-389-145
US-09-791-377-198
US-10-264-309-131
 Total number of hits satisfying chosen parameters:
 1370721 segs, 324215800 residues
 Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
 Published_Applications_AA:*
 OM protein - protein search, using sw model
 BLOSUM62
Gapop 10.0 , Gapext 0.5
 US-09-712-819D-12
33
1 FTLEISR 7
 Query
Match Length
 November
 seq length: 0 seq length: 7
 Title:
Perfect score:
 Scoring table:
 Score
 44444444444
 Minimum DB
Maximum DB
 Sequence:
 Searched:
 Database
 Run on:
 11109876543
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 Result
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Gaps

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Score 24; DB 9; Length 7; Pred. No. 1.2e+06; 2; Mismatches 1; Indels

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 US-09-826-290-205

Sequence 205 Application US/09826290

Patent No. US20020164668A1

GENERAL INFORMATION:

APPLICANT: Durham, L.Kathryn

APPLICANT: Priedman, David L.

APPLICANT: Herath, Herath Mudiyanselage Athula Chandrasiri

APPLICANT: Potter: David M.

APPLICANT: Solber: B. Michael

APPLICANT: Solber: B. Michael

APPLICANT: Sunderland, P. Trey

APPLICANT: Sunderland, P. Trey

APPLICANT: White, Frost

APPLICANT: White, Frost

APPLICANT: White, Frost

APPLICANT: White, Frost

APPLICANT: Milliams, Stephen A.

TITLE OF INVENTION: Uses Therefor, Including Diagnosis and Treatment of TITLE OF INVENTION: Nucleic Acid Molecules, Polypeptides and TITLE OF INVENTION: Nucleic Acid Molecules, Siephen A.

TITLE OF INVENTION: Nucleic Acid Molecules, Polypeptides and TITLE OF INVENTION: Nucleic Acid Molecules, Siephen A.

TITLE OF INVENTION: Nucleic Acid Molecules, Polypeptides and TITLE OF INVENTION: Uses Therefor, Including Diagnosis and Treatment of FILE REFERENCE: 2001-04-30

CURRENT APPLICATION NUMBER: US 60/253,647

PRIOR FILING DATE: 2000-04-03

PRIOR
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 Gaps
 Gaps
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 ;
APPLICANT: Briggman, Joseph
TITLE OF INVENTION: Detection and Treatment of Prostate Cancer
FILE REFERENCE: MTP-027
CURRENT APPLICATION NUMBER: US/09/998,909
CURRENT PILLING DATE: 2001-11-30
PRIOR APPLICATION NUMBER: US 60/250,284
PRIOR FILING DATE: 2000-11-30
NUMBER FO SEQ ID NOS: 14
SOFTWARE: Patentin version 3.0
SEQ ID NO 7
 72.7%; Score 24; DB 9; Length 7; llarity 71.4%; Pred. No. 1.2e+06; Conservative 0; Mismatches 2; Indels
 Query Match
Pest Local Similarity 57.1%; Pred. No. 1.2e+06;
Matches 4; Conservative 2; Mismatches 1; Indels
 ; Sequence 370, Application US/09826290 ; Patent No. US20020164668A1
 TYPE: PRT
CRGANISM: Homo sapiens
US-09-998-909-7
 t TYPE: PRT
CORGANISM: homo sapien
US-09-826-290-205
 Query Match
Best Local Similarity
Matches 5; Conserv
 1 FTLEISR 7
 1 FTFEYSR 7
 1 FTLEISR 7
 US-09-826-290-370
 RESULT 3
US-09-826-290-205
 RESULT 4
 qq
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RESULT 5

US-09-791-393-145

i Sequence 145, Application US/09791393

publication No. US20030032200A1

i GENERAL INPORMATION:

APPLICANT: Parekh, Herath Mudiyanselage Athula Chandrasiri

APPLICANT: Parekh, Rajesh Bhikhu

TITLE OF INVENITON: Diagnosis and Treatment of Bipolar Affective Disorder (BAD)

TITLE OF INVENITON: Diagnosis and Treatment of Bipolar Affective Disorder (BAD)

TITLE OF INVENITON NUMBER: US0/09/791,393

CURRENT FILING DATE: 2000-012-01

BARLIER FILING DATE: 2000-012-03

BARLIER FILING DATE: 2000-12-03

BARLIER APPLICATION NUMBER: US 60/254,830

BARLIER PILING DATE: 2000-12-12

NUMBER OF SEQ ID NOS: 308

SEQ ID NOS: 308

SEQ ID NO 145

SEQ ID NO 145
 APPLICANT: Williams, Stephen A.
APPLICANT: Williams, Stephen A.
TITLE OF INVENTION: Nucleic Acid Molecules, Polypeptides and
TITLE OF INVENTION: Uses Therefor, Including Diagnosis and Treatment of;
TITLE OF INVENTION: Uses Therefor, Including Diagnosis and Treatment of;
TITLE OF INVENTION: Uses Therefor, Including Diagnosis and Treatment of;
TITLE REFERENCE: 2572-1-001 No.
CURRENT PILING DATE: 2001-04-30
PRIOR PILING DATE: 2000-04-03
PRIOR FILING DATE: 2000-11-28
NUMBER OF SEQ ID NOS: 492
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 370
LENGTH: 7
LENGTH: 7
LENGTH: 7
 0;
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 Gaps
 ;
 .
APPLICANT: Durham, L.Kathryn
APPLICANT: Priedman, David L.
APPLICANT: Herath, Herath Mudiyanselage Athula Chandrasiri
APPLICANT: Herath, Herath Mudiyanselage Athula Chandrasiri
APPLICANT: Kimmel, Lida H.
APPLICANT: Parekh, Rajesh Bhikhu
APPLICANT: Potter, David M.
APPLICANT: Stofer, David M.
APPLICANT: Stofer, Thomas R.
APPLICANT: Stofer, Thomas R.
APPLICANT: Stofer, Thomas R.
APPLICANT: White, Prost
APPLICANT: While, Stofer Reid
 Similarity 57.1%; Score 24; DB 10; Length 7; Similarity 57.1%; Pred. No. 1.2e+06; 4; Conservative 2; Mismatches 1; Indels
 72.7%; Score 24; DB 9; Length 7; 57.1%; Pred. No. 1.2e+06; tive 2; Mismatches 1; Indels
 Query Match 72.7
Best Local Similarity 57.1
Matches 4; Conservative
 , TYPE: PRT
, ORGANISM: homo sapien
US-09-791-393-145
 ; TYPE: PRT
; ORGANISM: homo sapien
US-09-826-290-370
 Query Match
Best Local Similarity
Matches 4; Conserv
 1 FTLEISR 7
 :| |:||
1 YTFELSR 7
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APPLICANT: SURBER, B. MICHAEL
APPLICANT: SINEER, B. MICHAEL
APPLICANT: SINEER, B. MICHAEL
APPLICANT: STIGER, THOMAS R.
APPLICANT: STIGER, THOMAS R.
APPLICANT: TOWNSEND, P. TREY
APPLICANT: TOWNSEND, ROBERT R.
APPLICANT: WHITE, W. FROST
APPLICANT: WHILLAMS, STEPHEN A.
ITILE OF INVENTION: INCLUDING DIAGNOSIS AND TREATMENT OF ALZHEIMER'S DISEASE
ITILE OF INVENTION: INCLUDING DIAGNOSIS AND TREATMENT OF ALZHEIMER'S DISEASE
CURRENT APPLICATION NUMBER: US/10/264,309
CURRENT FILING DATE: 2002-10-03
PRIOR FILING DATE: 2001-10-03
NUMBER OF SEQ ID NOS: 491
 UCCLEIC ACID MOLECULES, POLYPEPTIDES AND USES THEREFOR, INCLUDING DIAGNOSIS AND TREATMENT OF ALZHEIMER'S DISEASE
 ..
 Length 7;
 Score 24; DB 15; L
Pred. No. 1.2e+06;
0; Mismatches 2;
 APPLICANT: STIGRE, THOMAS R.
APPLICANT: STIGRE, THOMAS R.
APPLICANT: TOWNSEND, P. TREY
APPLICANT: TOWNSEND, P. TREY
APPLICANT: WHILTS, W. PROST
TITLE OF INVENTION: NUCLEIC ACID MOLECULES, PO
TITLE REFERENCE: POA-002.01
CURRENT APPLICATION NUMBER: 06/1264,309
CURRENT FILLING DATE: 2002-10-03
PRIOR PAPLICATION NUMBER: 66/326,708
PRIOR PRILING DATE: 2001-10-03
NUMBER OF SEQ ID NOS: 491
SOFTWARE: PATENTIN VERSION 2.1
 Sequence 131, Application US/10264309
Publication No. US20040022794A1
GENERAL INFORMATION:
 US-10-264-309-460; Sequence 460, Application US/10264309; Publication No. US20040022794A1; GENERAL INFORMATION:
 SILBER, B. MICHAEL
SNYDER, PETER J.
SOARES, HOLLY D.
STIGER, THOMAS R.
 FRIEDMAN, DAVID L. HERATH
 LIDA H.
RAJESH B.
 DAVID M.
CHRISTIAN
 72.78;
 APPLICANT: DURHAM, L. KATHRYN APPLICANT: FRIEDMAN, DAVID L
 71.48;
 APPLICANT: DURHAM, L. KATHRYN
APPLICANT: FRIEDMAN, DAVID L.
APPLICANT: HERATH, HERATH
 POTTER, DAVID M. ROHLFF, CHRISTIAN
 KIMMEL, LIDA H.
PAREKH, RAJESH B.
 Query Match
Best Local Similarity 71.4
Matches 5, Conservative
 TYPE: PRT; ORGANISM: Homo sapiens
US-10-264-309-131
 1 FTLEISR 7
 POTTER,
ROHLFF,
 1 FTFEYSR 7
 KIMMEL,
 PAREKH,
 US-10-264-309-131
 SEQ ID NO 131
 APPLICANT:
APPLICANT:
 APPLICANT: APPLICANT:
 APPLICANT:
 APPLICANT: APPLICANT:
 APPLICANT:
 à
 g
 Sequence 155, Application US/09791389

Publication No. US20030032773A1

GENERAL INFORMATION:

APPLICANT: Herath, Herath Mudiyanselage Athula Chandrasiri

APPLICANT: Herath, Herath Mudiyanselage Athula Chandrasiri

APPLICANT: Parekh, Rajesh Bhikhu

APPLICANT: Parekh, Rajesh Bhikhu

APPLICANT: Toxoliff Christian

APPLICANT: Toxoliff Christian

APPLICANT: Tyson, Kerry Louise

TITLE OF INVENTION: Diagnosis and Their Use for

TITLE OF INVENTION: and Unipolar Depression

TITLE OF INVENTION: and Unipolar Depression

FILE REFERENCE: 2543-1-001 NZ

CURRENT PAPLICATION NUMBER: US 0004412.3

PRIOR FILING DATE: 2000-02-24

PRIOR FILING DATE: 2000-12-08

PRIOR FILING DATE: 2000-12-12

NUMBER OF SEQ ID NOS: 308

SEQ ID NO 145

LENGTH: Taxoliff Christian Christ
 APPLICANT: Parekh, Rajesh
TITLE OF INVENTION: PROTREINS, GENES AND THEIR USE FOR DIAGNOSIS AND TREATMENT OF
TITLE DOF INVENTION: SCHIZOPHRENIA,
TITLE DOF INVENTION: SCHIZOPHRENIA,
FILE REPERENCE: 9155-060-999
CURRENT FILING DATE: 2001-02-23
PRIOR APPLICATION NUMBER: 09/750,395
PRIOR FILING DATE: 2000-12-28
NUMBER OF SEQ ID NOS: 677
SEQ ID NOS: 677
SEQ ID NO 198
LENGTH: 7
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 Gaps
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0
 72.7%; Score 24; DB 10; Length 7; 57.1%; Pred. No. 1.2e+06; 2; Mismatches 1; Indels
 72.7%; Score 24; DB 11; Length 7; 57.1%; Pred. No. 1.2e+06; ive 2; Mismatches 1; Indels
 Sequence 198, Application US/09791377
Publication No. US20040110938A1
GENERAL INFORMATION:
 4; Conservative
 Conservative
 TYPE: PRT
ORGANISM: Homo sapiens
 ; TYPE: PRT
; ORGANISM: homo sapien
US-09-791-389-145
1 FTLEISR 7
 : | |:||
1 YTFELSR 7
 Query Match
Best Local Similarity
Matches 4; Conserv
 1 FTLEISR 7
 Query Match
Best Local Similarity
Matches 4; Conserv
 : | |: || YTFELSR 7
 : | |: ||
YTFELSR 7
 1 FTLEISR 7
 RESULT 6
US-09-791-389-145
 RESULT 7
US-09-791-377-198
 US-09-791-377-198
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Sequence 154, Application US/10700340

Sequence 154, Application US/10700341

Sequence 154, Application US/10700341

Publication No. US2004023023A1

GENERAL INFORMATION:

APPLICAMY: Herath Mudiyanselage Athula Chandrasiri

APPLICAMY: Herath Mudiyanselage Athula Chandrasiri

TITLE OF INVENTION: CANCER

FILE REPRENEUR: 243-1-03

CURRENT APPLICATION NUMBER: US/10/700,340

CURRENT APPLICATION NUMBER: US/10/700,340

CURRENT APPLICATION NUMBER: GB0110790.3

PRIOR FILING DATE: 2001-05-02

PRIOR FILING DATE: 2001-05-02

PRIOR FILING DATE: 2001-07-27

PRIOR FILING DATE: 2001-07-27

PRIOR FILING DATE: 2001-09-14

PRIOR FILING DATE: 2001-09-14

PRIOR APPLICATION NUMBER: GB0118385.4

PRIOR FILING DATE: 2001-07-27

PRIOR FILING DATE: 2001-08-14

PRIOR FILING DATE: 2001-08-16

PRIOR APPLICATION NUMBER: GB0120045.0

PRIOR FILING DATE: 2001-08-16

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 Gaps
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 .
 72.7%; Score 24; DB 17; Length 7; 57.1%; Pred. No. 1.2e+06; iive 2; Mismatches 1; Indels
 APPLICANT: Nagem, Ronaldo A.P.
APPLICANT: Colau, Didier
APPLICANT: Colau, Didier
APPLICANT: Renauld, Jean-Christophe
APPLICANT: Renauld, Jean-Christophe
APPLICANT: Dumoutier, Laure
APPLICANT: Dumoutier, Laure
TITLE OF INVENTION: Crystal Structure of Interleukin-22
FILE REFERENCE: LUD-712 US
CURRENT APPLICATION NUMBER: US/10/050,552A
CURRENT FILING DATE: 2002-04-04
PRIOR APPLICATION NUMBER: 60/317,937
PRIOR PILING DATE: 2001-09-10
PRIOR FILING DATE: 2001-09-10
PRIOR FILING DATE: 2001-11-27
 Length 7;
 Score 24; DB 17;
Pred. No. 1.2e+06;
0; Mismatches 2.
 Sequence 4, Application US/10050552A Publication No. US20020187512A1 GENERAL INFORMATION:
 Query Match 72.7%;
Best Local Similarity 71.4%;
Matches 5; Conservative
 4; Conservative
 ; ORGANISM: Homo sapiens
US-10-700-340-154
 ; LENGTH: 7
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-700-340-52
 Query Match
Best Local Similarity
 1 FTLEISR 7
 1 FTFEYSR 7
 1 FILEISR 7
 RESULT 12
US-10-700-340-154
 RESULT 13
US-10-050-552A-4
SEQ ID NO 52
 Matches
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 US-10-700-340-52

Sequence 52, Application US/10700340

Publication No. US20040203023A1

Sequence 52, Application US/10700340

Publication No. US20040203023A1

SEQUENCE 52, Application No. US2004020302A1

TITLE OF INVENTION: PROTEINS, GENES AND THEIR USE FOR DIAGNOSIS AND TREATMENT OF BREAD TITLE OF INVENTION: CANCER

TITLE OF INVENTION: CANCER

TITLE OF INVENTION CANCER: 2003-11-03

CURRENT APPLICATION NUMBER: DCT/GB02/02022

PRIOR APPLICATION NUMBER: GB0110790.3

PRIOR PELING DATE: 2001-05-02

PRIOR PELING DATE: 2001-05-02

PRIOR PELING DATE: 2001-07-27

PRIOR APPLICATION NUMBER: GB0119791.2

PRIOR PELING DATE: 2001-08-14

PRIOR PELING DATE: 2001-08-16

PRIOR FILING DATE: 2001-08-16

PRIOR PILING DATE: 2001-08-16

PRIOR FILING DATE: 2001-11-22

NUMBER OF SEQ ID NOS: 156

SOFTWARE: PALENTIN VERSION 3.1
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 ó
 PAPLICANT: INVESTICES N.V.

TITLE OF INVENTION: Method for the Diagnosis and Differential Diagnosis of TITLE OF INVENTION: Method for the Diagnosis and Differential Diagnosis of TITLE OF INVENTION: Neurological Diseases FILE REPRENCE: 1132,0038 NPUS01

CURRENT APPLICATION NUMBER: US/10/601,100

CURRENT FILING DATE: 2003-06-20

PRIOR PILING DATE: 2002-06-21

PRIOR PILING DATE: 2002-07-17

NUMBER OF SEQ ID NOS: 113

SOFTWARE: Patentin version 3.2

SEQ ID NO 105

LENGTH: 7
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 ;
0
 Length 7;
 72.7%; Score 24; DB 15; Length 7; 57.1%; Pred. No. 1.2e+06; 1ive 2; Mismatches 1; Indels
 1; Indels
 Score 24; DB 15;
Pred. No. 1.2e+06;
2; Mismatches 1;
 Sequence 105, Application US/10601100 Publication No. US20040072261A1 GENERAL INFORMATION:
 72.7%;
nilarity 57.1%;
Conservative 2
 SOFTWARE: PatentIn Version 2.1 SEQ ID NO 460
 Query Match
Best Local Similarity 5/...
4; Conservative
 TYPE: PRT; ORGANISM: homo sapiens
US-10-601-100-105
 ; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-264-309-460
 Best Local Similarity
Matches 4; Conserv
 : | |: ||
1 YTFELSR 7
 1 FILEISR 7
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1 YTFELSR 7
 1 FTLEISR 7
 RESULT 10
US-10-601-100-105
 Query Match
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) OTHER INFORMATION: A conserved sequence between Region 2 in IL-22 and IL-10 US-10-050-552A-4
 ;
 ;
0
 Gaps
 Gaps
 RESULT 14
US-10-234-026-6

i Sequence 6, Application US/10234026

i Sequence 6, Application US/10234026

i Publication No. US20030097679A1

i GENERAL INFORMATION:
APPLICANT: Vlaams Interuniversitair Instituut voor Biotechnol
APPLICANT: Gams Secengaard
APPLICANT: Gens Ostergaard
APPLICANT: Mark William Davey
APPLICANT: Marc Charles Ernest Van Montagu
ITILE OF INVENTION: PRODUCTION OF ASCORBIC ACID IN PLANTS
FILLS REPRENCE: DECLES.001C1
CURRENT APPLICATION NUMBER: US/10/234,026
CURRENT FILING DATE: 1997-05-07
FRIOR FILING DATE: 1997-05-07
PRIOR FILING DATE: 1998-05-07
PRIOR FILING DATE: 1998-05-07

PRIOR FILING DATE: 1998-05-07

PRIOR FILING DATE: 2000-02-15

NUMBER OF SEQ ID NOS: 15

SOFTWARE: FastSEQ for Windows Version 4.0

LENGTH: 7
 .;
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0
 DB 13; Length 7;
1.2e+06;
 60.6%; Score 20; DB 14; Length 7; 50.0%; Pred. No. 1.2e+06; ive 3; Mismatches 0; Indels
 0; Indels
 Sequence 4. Application US/10238965
| Publication No. US20040002586A1
| General INPORMATION:
| APPLICANT: Nagem. Ronaldo A.P.
| APPLICANT: Colau, Didier |
| APPLICANT: Renauld, Usan-Christophe |
| APPLICANT: Polikarpov, Laure |
| APPLICANT: Polikarpov |
| APPLICANT:
 Query Match 60.6%; Score 20; DB Best Local Similarity 100.0%; Pred. No. 1.2 Matches 4; Conservative 0; Mismatches
NUMBER OF SEQ ID NOS: 5
SOFWARE: Patentin version 3.1
SEQ ID NO 4
IENCTH: 7
 ORGANISM: artificial sequence FEATURE:
 TYPE: PRT
ORGANISM: Brassica oleracea
 Query Match
Best Local Similarity 50.0
Matches 3; Conservative
 2 TLEISR 7
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2 TIELSK 7
 1 FTLE 4
 1 FTLE 4
 US-10-234-026-6
 TYPE: PRT
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TYPE: PRT (CRGANISM: artificial sequence PEATURE:) PEATURE:) OTHER INFORMATION: A conserved sequence between Region 2 in IL-22 and IL-10 US-10-238-965-4
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 Gaps
 .
0
 60.6%; Score 20; DB 15; Length 7; 100.0%; Pred. No. 1.2e+06; Live 0; Mismatches 0; Indels
 0; Indels
 Search completed: November 4, 2004, 01:43:17 Job time : 70.6667 secs
PRIOR FILING DATE: 2001-11-27
NUMBER OF SEQ ID NOS: 5
SOFTWARE: PatentIn version 3.1
SEQ ID NO 4
 Conservative
 Query Match
Best Local Similarity
 1 FTLE 4
 1 FTLE 4
 LENGTH:
 Matches
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 96, Appl
97, Appl
98, Appli
6, Appli
7, Appli
8, Appli
100, App
 12, Appl
14, Appl
5032, Ap
33, Appl
71, Appl
71, Appl
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 4, 2004, 00:42:19; Search time 16.6667 Seconds (without alignments) 27.854 Million cell updates/sec
 Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
 Description
 Sequence Sequence Sequence S
 Sequence Seq
 Sequence 3
Sequence 3
Sequence 3
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Sequence
Sequence
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 Sequence
 Issued Patents AA:*

(Ggn2_6/ptodata/1/iaa/5A_COMB.pep:*

(Ggn2_6/ptodata/1/iaa/5B_COMB.pep:*

(Ggn2_6/ptodata/1/iaa/6A_COMB.pep:*

(Ggn2_6/ptodata/1/iaa/6B_COMB.pep:*

(Ggn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*

(Ggn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*

(Ggn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
 GenCore version 5.1.6
(c) 1993 - 2004 Compugen Ltd.
 US-09-840-459-32
US-09-497-6258-32
US-09-497-6228-55
US-09-497-6228-55
US-08-672-345C-5
US-08-672-345C-6
US-08-672-345C-7
US-08-672-345C-95
US-08-672-345C-95
US-08-672-345C-95
US-08-672-345C-95
US-08-672-345C-95
US-08-672-345C-95
US-08-672-345C-95
US-08-672-345C-95
US-08-672-345C-95
US-09-214-095D-109
US-09-214-095D-109
US-09-214-095D-119
 Total number of hits satisfying chosen parameters:
 478139 seqs, 66318000 residues
 SUMMARIES
 Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
 - protein search, using sw model
 BLOSUM62
Gapop 10.0 , Gapext 0.5
 US-09-712-819D-12
33
1 FTLEISR 7
 seq length: 0
seq length: 200000000
 Query
Match Length
 November
 Title:
Perfect score:
 Scoring table:
 Score
 Minimum DB
Maximum DB
 OM protein
 Sequence:
 Run on:
 Result
 No.
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GENERAL INFORMATION:
 USA
 US-09-497-625A-55
 RESULT 5
US-08-672-345C-5
 COUNTRY:
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0
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 Gaps
 Gaps
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0
 100.0%; Score 33; DB 4; Length 112; 100.0%; Pred. No. 4.3; o; Indels iive 0; Mismatches 0; Indels
 100.0%; Score 33; DB 4; Length 100; 100.0%; Pred. No. 3.8; tive 0; Mismatches 0; Indels
 PEREAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: LaRosa, Gregory J.
APPLICANT: LaRosa, Gregory J.
APPLICANT: Horvath, Christopher
APPLICANT: Nowman, Walter
APPLICANT: Nowman, Walter
APPLICANT: O'Brien, Siobhan H.
APPLICANT: O'Brien, Siobhan H.
APPLICANT: O'RATEN, SIOBHAN H.
APPLICANT: O'RATEN, SIOBHAN H.
APPLICANT: O'RATEN, MATHODS OF USE THEREFOR
FILE REFERENCE: 1855.1052-012
CURRENT APPLICATION NUMBER: US/09/840,459
CURRENT APPLICATION NUMBER: 09/497,625
PRIOR FILING DATE: 2000-02-03
PRIOR FILING DATE: 2000-02-03
PRIOR FILING DATE: 1999-07-22
PRIOR FILING DATE: 1999-07-22
PRIOR FILING DATE: 1999-07-22
PRIOR FILING DATE: 1999-07-23
NUMBER OF SEQ ID NOS: 107
SEQ ID NO S5
LENTH: LENTH: DELECTION WINDER: 09/121,781
PRIOR FILING DATE: 1999-07-23
NUMBER OF SEQ ID NOS: 107
MUMBER OF SEQ ID NOS: 107
MUMBER OF SEG ID NOS: 107

APPLICANT: O'Brien, Siobhan H.
APPLICANT: O'Keefe, Theresa
TITLE OF INVENTION: HUMANIZED ANTI-CCR2 ANTIBODIES AND
TITLE OF INVENTION: HUMANIZED ANTI-CCR2 ANTIBODIES AND
TITLE OF INVENTION: METHODS OF USE THEREFOR
TITLE OF INVENTION: METHODS OF USE THEREFOR
CURRENT PEDLICATION NUMBER: US/09/497,625A
CURRENT FILING DATE: 2000-02-03
PRIOR FILING DATE: 1999-07-22
PRIOR FILING DATE: 1999-07-22
PRIOR FILING DATE: 1998-07-23
NUMBER OF SEQ ID NOS: 106
SEQ ID NOS: 106
SEQ ID NO 32
LENGTH: 100
 US-09-497-625A-55
Sequence 55, Application US/09497625A
Patent No. 6727349
 Sequence 55, Application US/09840459
Patent No. 6696550
 Query Match
Best Local Similarity 100.
 Homo sapiens
 ; TYPE: PRT
; ORGANISM: Mus musculus
US-09-497-625A-32
 Query Match
Best Local. Similarity
7; Conserve
 76 FTLEISR 82
 76 FTLEISR 82
 1 FTLEISR 7
 1 FILEISR 7
 RESULT 3
US-09-840-459-55
 US-09-840-459-55
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Gaps
 0;
 100.0%; Score 33; DB 4; Length 112; 100.0%; Pred. No. 4.3;
 Indels
 APPLICANT: NOTHING. NETHING.
APPLICANT: O'Brien, S'TARTAN
APPLICANT: O'Reien, Siobhan H.
APPLICANT: O'Reien, Siobhan H.
APPLICANT: O'Reien, Siobhan H.
TILE OF INVENTION: HUMANIZED ANTI-CCR2 ANTIBODIES AND
TITLE OF INVENTION: HUMANIZED ANTI-CCR2 ANTIBODIES AND
TITLE OF INVENTION: HUMANIZED 2004
CURRENT APPLICATION NUMBER: US/09/497,625A
CURRENT APPLICATION NUMBER: 08/359,193
PRIOR APPLICATION NUMBER: 09/359,193
PRIOR APPLICATION NUMBER: 09/121,781
PRIOR PILING DATE: 1998-07-23
PRIOR FILING DATE: 1998-07-23
SEQ ID NOS: 106
SOFTWARE: FASLERQ for Windows Version 3.0
SEQ ID NO 55
LENGTH. 112
 MEDIUM TYPE: RIOPY CLEAR

COMPUTER: IN PC Compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIN Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/672,345C

FILING DATE: 24-UN-1996

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:
NAME: White, John P

REGISTRATION NUMBER: 28,678

REFERENCE/DOCKET NUMBER: 0575/51400

TELECOMMUNICATION INFORMATION:
TELEFORM 212-278 0.040

TELEFORM: 212-391-0255

INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:

SEQUENCE CHARACTERISTICS:
 GENERAL INFORMATION:
APPLICANT: Landry Donald, W.
TITLE OF INVENTION: ANTI-COCAINE CATALYTIC ANTIBODY
NUMBER OF SEQUENCES: 108
CORRESPONDENCE ADDRESS:
ADDRESSEE: COOPEr and Dunham Lip
 .
 0; Mismatches
 ADDRESSEE: Cooper and Dunham LLP
STREET: 1185 Avenue of the Americas
CITY: New York
STATE: New York
 Sequence 5, Application US/08672345C Patent No. 5948658
LaRosa, Gregory J.
Horvath, Christopher
Newman, Walter
 ZIP: 10036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
 Query Match.
Best Local Similarity 100.
 , MOLECULE TYPE: protein US-08-672-345C-5
 TYPE: PRT
ORGANISM: Homo sapiens
 TYPE: amino acid
STRANDEDNESS: si
 linear
 76 PTLEISR 82
 1 FTLEISR 7
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0
 1100.0%; Score 33; DB 2; Length 113; Conservative 0; Mismatches 0. Trial
 US-08-672-345C-8

Sequence 8, Application US/08672345C

Patent No. 5946658

GENERAL INFORMATION:
APPLICANT: Landry Donald, W.
TITLE OF INVENTION: ANTI-COCAINE CATALYTIC ANTIBODY NUMBER OF SEQUENCES: 108
CORRESPONDENCE ADDRESS:
ADDRESSE: Cooper and Dunham LLP
STREET: 1185 Avenue of the Americas
CITY: New York
STRIE: New York
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/672,345C
FLIING DATE: 24-JUN-1996
CLASSIFICATION: 435
ATTOREY/AGENT INFORMATION:
REGISTRAITON NUMBER: 28,678
REPERBANCE/DOCKET NUMBER: 28,678
REPERBANCE/DOCKET NUMBER: 0575/51400
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION OF SEQ ID NO: 7:
SEQUENCE GLASSIFICS:
LENGTH: 113 amino acids
"WIND- amino acids
 COMPUTER REALABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
COMPUTER: TBM PC compatible
COMPUTER: TBM PC compatible
COMPUTER: TBM PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/672,345C
FILING DATE: 24-UN-1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: White, John P.
REGISTRATION NUMBER: 28,678
RESTRENCE/POCKET UNBER: 28,678
TELEFRANCE/DOCKET UNBER: 0575/51400
TELEFRANCE/DOCKET UNBER: 212-278-0400
TELEFRAN: 212-278-0400
 LENGTH: 113 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
 TELEFAX: 212-391-0525
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
 ; MOLECULE TYPE: protein US-08-672-345C-7
 linear
 Query Match
Best Local Similarity
Matches 7; Conserv
 1 FTLEISR 7
 76 FTLEISR
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 COUNTRY: US
 TOPOLOGY:
 US-08-672-345C-8
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Best Local Similarity 100.0%; Pred. No. 4.4;
Matches 7; Conservative 0; Mismatches 0; Indels
 100.0%; Score 33; DB 2; Length 113; 100.0%; Pred. No. 4.4;
 0; Indels
 RESULT 6
US-08-672-345C-6
i Sequence 6, Application US/08672345C
j Patent No. 5948658
j GENERAL INFORMATION:
i TITLE OF INVENTION: ANTI-COCAINE CATALYTIC ANTIBODY
i TITLE OF INVENTION: ANTI-COCAINE CATALYTIC ANTIBODY
i NUMBER OF SEQUENCES: 108
CORRESPONDENCE ADDRESS:
ADDRESSEE: Cooper and Dunham LLP
STREET: 1185 Avenue of the Americas
i CITY: New York
i CITY: New York
 Sequence 7, Application US/08672345C
Patent No. 5948658
GENERAL INFORMATION:
APPLICANT: Landry Donald, W.
TITLE OF INVENTION: ANTI-COCAINE CATALYTIC ANTIBODY
NUMBER OF SEQUENCES:
ADDRESSEE: Cooper and Dunham LLP
STREET: 1185 Avenue of the Americas
CITY: New York
STATE: New York
 COUNTRY NOT TO SERVICE
 0; Mismatches
 REFERENCE/DOCKET NUMBER: 05
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-278-0400
 TELERAX: 212.22.00.0000
TELERAX: 212.23.01.05.25
INFORMATION FOR SEQ ID NO: 6
SEQUENCE CHARACTERISTICS:
LENGTH: 113 amino acids
TYPE: amino acids
 Query Match 100.
Best Local Similarity 100.
Matches 7; Conservative
 TOPOLOGY: linear MOLECULE TYPE: protein
 single
 76 FTLEISR 82
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FTLEISR 82
 1 FTLEISR 7
 1 FTLEISR 7
 STRANDEDNESS:
 COUNTRY: US
ZIP: 10036
 US-08-672-345C-6
 US-08-672-345C-7
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Gaps

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us-09-712-819d-12.open.rai

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100.0%; Score 33; DB 2; Length 113; 100.0%; Pred. No. 4.4; tive 0; Mismatches 0; Indels
 Sequence 97, Application US/08672345C
; Sequence 97, Application US/08672345C
; Patent No. 5948658
; GENERAL INFORMATION:
 APPLICANT: Landry Donald, W.
; ITLE OF INVENTION: ANTI-COCAINE CATALYTIC ANTIBODY NUMBER OF SEQUENCES: 108
 CORRESPONDENCE 108 Avenue of the Americas
 CITY: New York
 CITY: New York
 COUNTRY: USA
 ZIP: How York
 CONPUTER: RADABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: BM PC compatible
 COMPUTER: BM PC compatible
 COMPUTER: PatentIN PS-DOS/MS-DOS
 SOFTWARE: PatentIN PS-Bease #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 FILING DATE: 24-JUN-1996
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 REGISCHATION: 435
 ATTORNEY/AGENT INFORMATION:
 REGISCHATION INFORMATION:
 REGISCHATION INFORMATION:
 TELEPHONE: 212-278-0400
 TELEPHONE: 212-278-0400
 TELEPAX: 212-391-0525
 INFORMATION FOR SEQI ID NO: 97:
 SADINEMATICATION TOWERENCE.
CALPLIANCE COMPUTER FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: Eloppy disk
COMPUTER: Eloppy disk
COMPUTER: Eloppy disk
COMPUTER: Date Floppy disk
COMPUTER: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/672,345C
FILING DATE: 24-JUN-1996
CLASSIFICATION NUMBER: US/08/672,345C
FILING DATE: 24-JUN-1996
CLASSIFICATION NUMBER: 28,678
REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 0575/51400
TELEPHONE: 212-278-0400
TELEPHONE: 212-278-0400
TELEPHONE: 212-391-0525
INFORMATION POR SEQ ID NO: 96:
SEQUENCE CHARACTERISTICS:
LENGTH: 113 amino acids
TYPE: amino acids
STRANDEDNESS: single
 LENGTH: 113 amino acids
TYPE: amino acid
STRANDEDMESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
 Query Match
Best Local Similarity 100.v
 SEQUENCE CHARACTERISTICS
 TOPOLOGY: linear MOLECULE TYPE: peptide
 76 FILEISR 82
 1 FTLEISR 7
 RESULT 11
US-08-672-345C-97
 US-08-672-345C-96
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 Gaps
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0
 100.0%; Score 33; DB 2; Length 113; 100.0%; Pred. No. 4.4;
 Query Match

Best Local Similarity 100.0%; Pred. No. 4.4;

Matches 7; Conservative 0; Mismatches 0; Indels
 0; Indels
 Sequence 95, Application US/08672345C

Patent No. 5948658

GENERAL INFORMATION:

APPLICANT: Landry Donald, W.

TITLE OF INVENTION:

NUMBER OF SEQUENCES: 108

CORRESPONDENCE ADDRESS:

ADDRESSEE: Cooper and Dunham LLP

STREET: 1185 Avenue of the Americas

CITY: New York

COUNTRY: USA
 COUNTRY: USAR
ZUDIN TYPE: 10036
COMPUTER ENDABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/672,345C
FILING DATE: 24-JUN-1996
FILING DATE: 24-JUN-1996
ATTONEY/AGENT INFORMATION:
NAME: White, John P.
REGISTRATION NUMBER: 28,678
RESPERENCE/POCKET NUMBER: 28,678
REJERENCE/POCKET NUMBER: 0575/51400
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION NUMBER: 212-278-0400
TELECOMMUNICATION SEQ ID NO: 95:
SEQUENCE CHARACTERISTICS:
SEQUENCE CHARACTERISTICS:
COMPUTER SEADED NO: 95:
SEQUENCE CHARACTERISTICS:
COMPUTER SEADED NO: 95:
COMPUT
 0; Mismatches
 LENGTH: 113 amino acids
TYPE: amino acid
STRANDEDNESS: single
 Query Match
Best Local Similarity 100.
Matches 7; Conservative
 TOPOLOGY: linear MOLECULE TYPE: protein
 76 FTLEISR 82
 111111
76 FTLEISR 82
 1 FTLEISR 7
 1 FILEISR 7
 US-08-672-345C-95
 US-08-672-345C-95
 RESULT 10
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Gaps

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 Query Match 100.0%; Score 33; DB 3; Length 113; Best Local Similarity 100.0%; Pred. No. 4.4; Matches 7; Conservative 0; Mismatches 0; Indels
 100.0%; Score 33; DB 3; Length 113; ilarity 100.0%; Pred. No. 4.4; Conservative 0; Mismatches 0; Indels
 100.0%; Score 33; DB 3; Length 113; 100.0%; Pred. No. 4.4;
 Indels
 ; FACELL NO. SECULO.;
; GENERAL INFORMATION:
; APPLICANT: Landry, Donald
; TITLE OF INVENTION: ANTI-COCAINE CATALYTIC ANTIBODY
; FILE REPERBNCE: 51400-A-PCT-US
; CURRENT APPLICATION NUMBER: US/99/214,095D
; CURRENT FILING DATE: 1999-07-19
; NUMBER OF SEQ ID NOS: 121
; SOFTWARE: PATENTIN VERSION 3.0
; SEQ ID NO 6
; LENGTH: 113
; TYRE: RRT
; ORGANISM: Murinae gen. sp.
US-09-214-095D-6
 Sequence 7, Application US/09214095D
Patent No. 6280987
GENERAL INFORMATION:
APPLICANT: Landry, Donald
TITLE OF INVENTION: ANTI-COCAINE CATALYTIC ANTIBODY
FILE REPERBINE: 51400-A-PCT-US
CURRENT PELICATION NUMBER: US/09/214,095D
CURRENT FILING DATE: 1999-07-19
NUMBER OF SEQ ID NOS: 121
 0; Mismatches
 Search completed: November 4, 2004, 00:54:52
Job time : 17.6667 secs
 RESULT 14
US-09-214-095D-6
; Sequence 6, Application US/09214095D
....ntent No. 6280987
 PatentIn version 3.0
 TYPE: PRT
ORGANISM: Murinae gen. Sp.
 Query Match
Best Local Similarity 100.
Matches 7: Conservative
 TYPE: PRT
ORGANISM: Murinae gen. sp
 Query Match
Best Local Similarity
7; Conserve
 76 FILEISR 82
 76 FTLEISR 82
 76 FTLEISR 82
 1 FTLEISR 7
 1 FTLEISR
 1 FTLEISR
 ; OKGANISM: MUL
US-09-214-095D-5
 US-09-214-095D-7
 ÚS-09-214-095D-7
 SOFTWARE:
SEQ ID NO 7
LENGTH: 113
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 Query Match 100.0%; Score 33; DB 2; Length 113; Best Local Similarity 100.0%; Pred. No. 4.4; Matches 7; Conservative 0; Mismatches 0; Indels
 100.0%; Score 33; DB 2; Length 113; 100.0%; Pred. No. 4.4;
 Sequence 98, Application US/08672345C

Patent No. 5948658

GENERAL INFORMATION:
APPLICANT: Landry Donald, W.
TITLE OF INVENTION: ANTI-COCAINE CATALYTIC ANTIBODY
NUMBER OF SEQUENCES: 108
CORRESPONDENCE ADDRESS:
ADDRESSEE: Cooper and Dunham LLP
STREET: 1185 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: USA
 0; Indels
 CURRENT APPLICATION DATA:

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/672,345C
FILING DATE: 24-JUN-1996
CLASSIPICATION: 435
ATTORNEY/AGENT INPORMATION:

NAME: White, John P.

REGISTRATION NUMBER: 28,678
REGISTRATION NUMBER: 28,678
TELEPHONE: 212-278-0400
TELEPHONE: 212-278-0400
TELEPHONE: 212-391-0525
INFORMATION FOR SEQ ID NO: 98:
SEQUENCE CHARACTERISTICS:
LENGTH: 113 amino acids

manne.
 GENERAL INFORMATION:
APPLICANT: Landry, Donald
TITLE OF INVENTION: ANTI-COCAINE CATALYTIC ANTIBODY
FILE REPERENCE: 51400-APCT-US
CURRENT APPLICATION NUMBER: US/09/214,095D
CURRENT FILING DATE: 1999-07-19
NUMBER OF SEQ ID NOS: 121
SOFTWARE: Patentin version 3.0
 100.0%; Pred. ...
 ZIP: 10036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC COMpatible
OCHUPTER: FIB PP Compatible
 ; Sequence 5, Application US/09214095D ; Patent No. 6280987
 Query Match 100.
Best Local Similarity 100.
Matches 7; Conservative
 single
 ; MOLECULE TYPE: peptide US-08-672-345C-98
 76 FTLEISR 82
 TYPE: amino acid
STRANDEDNESS: si
 linear
 1 FTLEISR 7
 76 Frieisk 82
 1 FTLEISR 7
US-08-672-345C-97
 US-08-672-345C-98
 US-09-214-095D-5
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Sequence 8, Application PC/TUS9504075 GENERAL INFORMATION:
 Conservative
 TOPOLOGY: unknown
MOLECULE TYPE: peptide
 Query Match
Best Local Similarity
Matches 4; Conserv
 FTLKISR 7
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FTFEYSR
 COMPUTER:
 RESULT 2
PCT-US95-04075-8
 US-08-222-619-8
 US-08-222-619-8
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엄
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 GenCore version 5.1,6
(c) 1993 - 2004 Compugen Ltd.
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US-09-268-992-78
US-08-753-750B-20
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US-09-174-060-17
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US-08-354-17
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US-07-717-331F-5
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US-08-134-231C-36
US-08-728-160-36
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 US-08-222-619-8
 478139 seqs, 66318000 residues
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Maximum Match 100%
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Gapop 10.0 , Gapext 0.5
 US-09-712-819D-6
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Perfect score:
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 Database
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 Result
No.
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Sequence 26, Appl
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Sequence 4, Appl
Sequence 41, Appl
Sequence 41, Appl
Sequence 41, Appl
Sequence 41, Appl
Sequence 219, Appl
Sequence 219, Appl
Sequence 219, Appl
Sequence 54, Appl
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Sequence
 APPLICANT: Lidenstein, Henri
APPLICANT: Lidenstein, Henri
APPLICANT: Lyons, David
APPLICANT: Wirfel, Mark
APPLICANT: Wirfel, Mark
APPLICANT: Wirfel, Mark
APPLICANT: Wirfel, Samuel
TITLE OF INVENTION: Afamin: A Human Serum Albumin-Like
TITLE OF INVENTION: Protein
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
ADDRESSE: Amgen Center, Patent Operations/RRC
STREET: 1840 DeHavilland Drive
CITY: Thousand Oaks
STATE: California
 OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/222,619
FILING DATE:
CLASSIFICATION + 435
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTER.STICS:
LENGTH: 7 amino acids
US-08-136-743B-63

US-09-040-216-55

US-08-591-632-17

US-08-591-632-26

US-09-611-451-17

US-09-611-451-26

US-09-611-451-26

US-08-357-264-6

US-08-357-264-6

US-08-290-444A-41

US-08-290-444A-41

US-08-290-446A-41

US-08-200-458-64
 ALIGNMENTS
 Sequence 8, Application US/08222619
Patent No. 5652352
GENERAL INFORMATION:
 IBM PC compatible
 COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
 LENGTH: 7 amino e
 COUNTRY: U.S.
ZIP: 91320-1789
 TYPE: amino
STRANDEDNESS:
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Gaps

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Score 20; DB 1; Length 7; Pred. No. 3.8e+05; 1; Mismatches 2; Indels

60.6%; 57.1%;

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NUMBER OF SEQ ID NOS: 84
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 78
LENGTH: 7
 4; Conservative
 STRANDEDNESS: single
TOPOLOGY: linear
 , MOLECULE TYPE: peptide US-08-346-333-24
 amino acid
 Query Match
Best Local Similarity
 94111
 Matches
 g
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 Sequence 24, Application US/08346333

Patent No. 567713

GENERAL INFORMATION:
APPLICANT: Balzkill, Timothy
ITLE OF INVENTION: Methods for modifying DNA and for
ITLE OF INVENTION: detecting effects of such modification on interaction of
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 Gaps
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 5252328-8
;Patent No. 5252328
;Patent No. 5252328
;Patent No. 5252328
; TITLE OF INVENTION: MYCOPLASMA HYOPNEUMONIAE ANTIGEN AND USES
;
 57.6%; Score 19; DB 6; Length 6; 80.0%; Pred. No. 3.8e+05; ive 0; Mismatches 1; Indels
 60.6%; Score 20; DB 5; Length 7; 57.1%; Pred. No. 3.8e+05; tive 1; Mismatches 2; Indels
APPLICANT: AMGEN INC.
TITLE OF INVENTION: Afamin: A Human Serum Albumin-Like
TITLE OF INVENTION: Protein
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
ADDRESSEE: Amgen Center, Patent Operations/RRC
 COUNTRY: U.S.
ZIP: 91320-1789
ZIP: 91320-1789
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/04075
 ADDRESSEE: Amgen Center, Patent Operations/RRC STREET: 1840 DeHavilland Drive CITY: Thousand Oaks STATE: California
 NUMBER OF SEQUENCES: 15
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/335,726
FILLING DATE: 07-APR-1989
PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 30,130
FILING DATE: 26-MAR-1987
 CLASSIFICATION:
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 7 amino acids
 4; Conservative
 4; Conservative
 unknown
 TOPOLOGY: unknown MOLECULE TYPE: peptide
 Query Match
Best Local Similarity
 TYPE: amino acid STRANDEDNESS: unl
 Query Match
Best Local Similarity
Matches 4; Conserv
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FTFEYSR 7
 1 FTLKISR 7
 1 FTLKI 5
 2 FVLKÍ 6
 FILING DATE:
 SEQ ID NO:8:
 US-08-346-333-24
 PCT-US95-04075-8
 THEREFORE
 5252328-8
 Matches
 RESULT 3
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TITLE OF INVENTION: encoded modified polypeptides with target substrates.

NUMBER OF SEQUENCES: 86
CORRESPONDENCE ADDRESS:
ADDRESSEE: Richard F. Trecartin
STREET: 4 Embarcadero Center, Suite 3400
CITY: San Francisco
STATE: California
COUNTRY: USA
 Gaps
 Sequence 78, Application US/09268992
; Sequence 78, Application US/09268992
; Patent No. 6342351
; GENERAL INFORMATION:
APPLICANT: Chen, H.
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING
TITLE OF INVENTION: AND TREATING CHROMOSCME-18P RELATED DISORDERS;
TITLE OF INVENTION: AND TREATING CHROMOSCME-18P RELATED DISORDERS;
TITLE OF INVENTION: AND TREATING CHROMOSCME-18P RELATED DISORDERS;
TITLE APPLICATION NUMBER: US/09/268,992
CURRENT FILING DATE: 1999-01-02
EARLIER PILING DATE: 1999-01-02
EARLIER APPLICATION NUMBER: 60/106,056
EARLIER APPLICATION NUMBER: 60/106,056
EARLIER PAPLICATION NUMBER: 60/1078,044
EARLIER PILING DATE: 1998-03-16

***MUMBER: 00/1078,044
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0
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 CARPOTER READABLE FORM:
MEDIUM TYPE: Floppy disk
MEDIUM TYPE: Floppy disk
COMPUTER: Imb PC Compatible
CORREATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/346,333
FILING DATE:
APPLICATION NUMBER: US/08/39,501
FILING DATE: 22-OCT-1990
ATPONEY/AGENT INFORMATION:
APPLICATION NUMBER: 31,801
REFERENCE/DOCKET NUMBER: 31,801
RESTRENCE/DOCKET NUMBER: 31,801
REGISTRATION NUMBER: 31,801
REGISTRATION NUMBER: 31,801
REGISTRATION NUMBER: 31,801
REJERBRANCE (415) 781-1989
INFORMATION E. (415) 781-1989
INFORMATION FOR SEQ ID NO: 24:
SEQUENCE CHRARACTERISTICS:
LEMOTH: 7 2410
 54.5%; Score 18; DB 1; Le
100.0%; Pred. No. 3.8e+05;
iive 0; Mismatches 0;
```

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```
APPLICANT: Botstein, David
APPLICANT: Botstein, David
APPLICANT: Botstein, Timothy
TITLE OF INVENTION: Methods for modifying DNA and for
TITLE OF INVENTION: detecting effects of such modification on interaction of
TITLE OF INVENTION: encoded modified polypeptides with target substrates.
NUMBER OF SEQUENCES: 86
CORRESONDENCES: 86
CORRESONDENCE ADDRESS:
STREET: 4 Bmbarcadero Center, Suite 3400
CITY: San Francisco
STATE: California
COUNTRY: USA
 Gaps
 Gaps
 .;
0
 ..
 Length 7;
 Length 7;
 COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM FC compatible
OPERATUR SYSTEM: PC-DOS/MN-DOS
SOFTWARE: PatentIN Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US91/07506
FILING DATE: 19911021
CLASSIFICATION: 435
 Score 18; DB 5; Le
Pred. No. 3.8e+05;
 Score 18; DB 4; I
Pred. No. 3.8e+05;
 1; Mismatches
 0; Mismatches
 Sequence 24, Application PC/TUS9107506 GENERAL INFORMATION:
 RESULT 9
US-09-174-060-17
Sequence 17, Application US/09174060
Patent No. 5989554
GENERAL INFORMATION:
 Knuth, Mark W
Haak-Frendscho, Mary
Shultz, John W
Lesley, Scott A
Villars, Catherine E
 ATTORNEY/AGENT INFORMATION:
NAME: Trecartin, Richard F.
REGISTRATION UNDERS: 31,801
REFERENCE/DOCKET UNDERS: FP-5:
TELECOMMUNICATION INFORMATION:
TELEFONE: (415) 781-1989
INFORMATION FOR SEQ ID NO: 24:
 54.5%;
 54.5%; 100.0%;
 ORGANISM: Escherichia coli
 Query Match
Best Local Similarity 60.0
Matches 3; Conservative
 SEQUENCE CHARACTERISTICS:
 Conservative
 MOLECULE TYPE: peptide
 linear
 Query Match
Best Local Similarity
 1 FTLKI 5
 STRANDEDNESS:
 1 Frisv
 ; UKGANASA: ____US-08-753-750B-20
 RESULT 8
PCT-US91-07506-24
 PCT-US91-07506-24
 APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
I
 4;
 Matches
 ð
 Db
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 g
 US-08-753-750B-20

| Sequence 20, Application US/08753750B
| Patent No. 6610506
| Patent No. 6610506
| GENERAL INFORMATION:
| APPLICANT: Lo, Reggie Y.C.
| APPLICANT: Do, Reggie Y.C.
| APPLICANT: Dotter, Andrew A.
| TITLE OF INVENTION: TRANSFERIN BINDING PROTEINS OF
| TITLE OF INVENTION: PASTEURELA HAEMOLYTICA AND VACCINES CONTAINING THE SAME
| TITLE OF INVENTION: PASTEURELA HAEMOLYTICA AND VACCINES CONTAINING THE SAME
| TITLE OF INVENTION: PASTEURELS HAEMOLYTICA AND VACCINES CONTAINING THE SAME
| TITLE OF INVENTION: PASTEURELS HOSTORY OF THE SAME
| TITLE OF INVENTION: PASTEURERS IS/08/753,750B
| CURRENT APPLICATION NUMBER: CA 2,164,274
| PRIOR FILING DATE: 1995-112-01
| PRIOR PELING DATE: 1995-12-01
| PRIOR FILING DATE: 1995-12-01
| PRIOR FILING DATE: 1995-12-01
| NUMBER OF SEQ ID NOS: 68
| SOFTWARE: FastSEQ for Windows Version 4.0
 ö
 ö
 GENERAL INFORMATION:
APPLICANT: Chen, H.
APPLICANT: Chen, H.
APPLICANT: Chen, H.
TITLE OF INVENTION: MATHODS AND COMPOSITIONS FOR DIAGNOSING
TITLE OF INVENTION: AND TREATING CHROWOSOME-18p RELATED DISORDERS
TITLE OF INVENTION: AND TREATING CHROWOSOME-18p RELATED DISORDERS
CURRENT APPLICATION NUMBER: US/09/657,474
CURRENT PILING DATE: 1999-007
PRIOR PILING DATE: 1999-01-22
PRIOR PILING DATE: 1999-01-22
PRIOR PILING DATE: 1999-10-22
PRIOR PILING DATE: 1998-10-23
PRIOR PILING DATE: 1998-10-23
PRIOR PILING DATE: 1998-10-23
PRIOR PILING DATE: 1998-10-23
PRIOR PILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088,312
PRIOR PILING DATE: 1998-06-05
PRIOR PILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088,312
PRIOR PILING DATE: 1998-06-05
 Gaps
 Gaps
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 ;
 54.5%; Score 18; DB 3; Length 7; 50.0%; Pred. No. 3.8e+05; live 2; Mismatches 1; Indels
 1; Indels
 54.5%; Score 18; DB 3; Length 7; 50.0%; Pred. No. 3.8e+05; 1ve 2; Mismatches 1; Indels
 Sequence 78, Application US/09657474 Patent No. 6399762
 Query Match
Best Local Similarity 50.0
Matches 3; Conservative
 Conservative
; ORGANISM: Homo sapiens
US-09-268-992-78
 ; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-657-474-78
 Query Match
Best Local Similarity
Matches 3; Conserv
 1 FTLKIS 6
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2 YTMKYS 7
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2 YTMKYS 7
 1 FTLKIS
 US-09-657-474-78
 SEQ ID NO 20
LENGTH: 7
TYPE: PRT
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6

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51.5%; Score 17; DB 3; Length 7; 60.0%; Pred. No. 3.8e+05; ive 2; Mismatches 0; Indels
FILING DATE: 29-MAY-1996
CLASSIFICATION: 435
CLASSIFICATION: 435
CLASSIFICATION: 6(21N 1/21, C12R 1:19)
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9225453.1
FILING DATE: 04-DEC-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 9330816.7
FILING DATE: 10-MAY-1993
PRIOR APPLICATION DATA: 1993
PRIOR APPLICATION DATA: 1994
PRIOR APPLICATION DATA: 20-DEC-1994
PRIOR APPLICATION DATA: 1995
PRIOR APPLICATION DATA: 1995
PRIOR APPLICATION DATA: 1995
PRIOR APPLICATION NUMBER: 1994
PRIOR APPLICATION NUMBER: 1995
PRIOR APPLICATION NUMBER: 28111/33259
PRIOR APPLICATION NUMBER: 28111/33259
PRICOMAUNICATION INPORMATION: TELECOMMUNICATION TELECOMMUNICATION: TELECOMMUNICATION: TELECOMMUNICATION: TELECOMMUNICATION: TELECOMUNICATION: TELECOMUNICATION: TELECOMUNICATION: TELECOMUNICATION: TELECOMUNICATIO
 435
(C12N 1/21, C12R 1:19)
 3; Conservative
 1: 7 amino acids amino acid
 TOPOLOGY: linear MOLECULE TYPE: peptide
 COMPUTER READABLE FORM:
 Query Match
Best Local Similarity
Matches 3; Conserv
 Madison
 USA
 STRANDEDNESS:
 RESULT 11
US-08-338-382-17
 STREET:
CITY: Ma
STATE: W
 COUNTRY:
 Dp
 ò
 0;
 TITLE OF INVENTION: HIGH LEVEL EXPRESSION AND FACILE
TITLE OF INVENTION: PURIFICATION OF PROTEINS, PEPTIDES AND CONJUGATES FOR
TITLE OF INVENTION: IMMUNIZATION, PURIFICATION AND DETECTION APPLICATIONS
CORRESPONDENCES: 22
CORRESPONDENCE ADDRESS:
 RESULT 10
US-08-654-623-69

i Sequence 69, Application US/08654623

j Patent No. 6010884

i GENERAL INFORMATION:

APPLICANT: Griffiths, Andrew D

APPLICANT: Holliger, Kaspar-Philipp

APPLICANT: Fisch, Igor

APPLICANT: Winter, Gregory P

TITLE OF INVENTION: Recombinant Binding Proteins and Peptides

NUMBER OF SEQUENCES: 71

CORRESPONDENCE ADDRESS: 72

CORRESPONDENCE ADDRESS: ADDR
 ;
0
 0; Indels
 Length 7;
 CONDITY: USA

CONDITY: USA

CONDITY: USA

COMPUTER READABLE FORM:
MEDIUM TYPE: Flopy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/174,060

FILING DATE:
CLASSIPICATION:
PRICR APPLICATION:
PRICR APPLICATION:
PRICR APPLICATION:
TRING DATE:
APPLICATION NUMBER: 08/338,382

FILING DATE:
ATTORNEY/AGENT:
NAME: Sara, Charles S

REGISTRATION:
NAME: Sara, Charles S

REGISTRATION NUMBER: 3,4506.024

TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
 51.5%; Score 17; DB 2; I
75.0%; Pred. No. 3.8e+05;
tive 1; Mismatches 0;
 ADDRESSEE: Ross & Stevens, S.C. STREET: 1 South Pinckney St. CITY: Madison
 TELEFAX: 608-257-9175
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
 Query Match
Best Local Similarity 75.0
Matches 3; Conservative
 LENGTH: 7 amino acids
 unknown
 MOLECULE TYPE: protein
 TYPE: amino acid
 linear
 STATE: WI
COUNTRY: USA
 US-09-174-060-17
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Gaps

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Sequence 23, Application US/08591632
Patent No. 6261558
GENERAL INPRMATION:
APPLICANT: Barbas, Carlos F.
APPLICANT: Burton, Dennis R.
TITLE OF INVENTION: SYNTHETIC HUMAN NEUTRALIZING MONOCLONAL TITLE OF INVENTION: ANTIBODIES TO HUMAN IMMUNOBFICIENCY VIRUS NUMBER OF SEQUENCES: 92
CORRESPONDENCE ADDRESS:
 ;
0
 Score 17; DB 4; Length 7;
Pred. No. 3.8e+05;
1; Mismatches 0; Indels
 ADDRESSEE: The Scripps Research Institute, Office of ADDRESSEE: Patent Counsel
STREET: La Jobla
CITY: La Jobla
 1; Mismatches
 TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 17:
 COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENTION DATA:
APPLICATION MUMBER: US/08/591,632
FILING DATE: 19-OCT-1994
RILING DATE: 19-OCT-1994
PRICK APPLICATION DATA:
APPLICATION NUMBER: PCT/US/94/11907
FILING DATE: 19-OCT-1994
PRICK APPLICATION DATA:
APPLICATION NUMBER: US/08/308,841
FILING DATE: 19-SEP-1994
PRICK APPLICATION DATA:
APPLICATION NUMBER: US/08/233,619
FILING DATE: 26-APR-1994
PRICK APPLICATION DATA:
APPLICATION NUMBER: US/08/233,619
FILING DATE: 19-OCT-1993
ATTORNEY APPLICATION DATA:
APPLICATION NUMBER: US/08/139,409
FILING DATE: 19-OCT-1993
ATTORNEY APPLICATION DATA:
APPLICATION NUMBER: US/08/139,409
FILING DATE: 19-OCT-1993
ATTORNEY APPLICATION DATA:
APPLICATION NUMBER: US/08/139,409
 NAME: Fitting, Thomas
REGISTRATION NUMBER: 34,163
REFERENCE/DOCKET NUMBER: TSRI 332.3
TELECOMMUNICATION INFORMATION:
 SEQUENCE CHARACTERISTICS:
LENGTH: 7 amino acids
TYPE: amino acid
 STRANDEDNESS: unknown
 INFORMATION FOR SEQ ID NO: 17
 51.5%;
 TELEPHONE: (619) 784-2937
TELEFAX: (619) 784-9399
INFORMATION FOR SEQ ID NO: 23
SEQUENCE CHARACTERISTICS:
 Query Match
Best Local Similarity 75.0
Matches 3; Conservative
 5 amino acids
 ; MOLECULE TYPE: protein US-08-591-632-23
 amino acid
 USA
 ZIP: 92037
 US-09-345-264-17
 US-08-591-632-23
 COUNTRY:
 TOPOLOGY:
 LENGTH:
 à
 d
 Sequence 17, Application US/09345264
Patent No. 6764689
GENERAL INFORMATION:
APPLICANT: Knuth, Mark W
Haak-Frendscho, Mary
Shultz, John W
Lesley, Scott A
Villars, Catherine E
TITLE OF INVENTION: HIGH LEVEL EXPRESSION AND FACILE
PURFFICATION OF PROTEINS, PEPTIDES AND CONJUGATES FOR
 ..
o
 Gaps
 0;
 Score 17; DB 3; Length 7;
Pred. No. 3.8e+05;
1; Mismatches 0; Indels
 COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
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CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/338,382
 CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/345,264
FILING DATE: 30-Jun-1999
CLASSIFICATION: cUnknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/174,060
FILING DATE:
 FILING DATE:
 APPLICATION TOWN

 1; Mismatches
 NAME: Sara, Charles S
REGISTRATION NUMBER: 30,492
REFERENCE/DOCKET NUMBER: 34506.024
TELECOMFUNICATION INFORMATION:
TELEPRAK: 608-257-5353
TELEFRAK: 608-257-9175
 NUMBER OF SEQUENCES: 22
CORRESPONDENCE ADDRESS:
ADDRESSER: Ross & Stevens, S.C.
STREET: 1 South Pinckney St.
CITY: Madison
 34506.024
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
 ATELLCHANGE DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: 38.74, Charles S
REGISTRATION NUMBER: 30,492
REFERENCE/DOCKET NUMBER: 3450(
TELECOMMUNICATION INFORMATION:
TELEFAX: 608-257-5353
TELEFAX: 608-257-5353
TELEFAX: 608-257-9175
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 7 amino acids
 51.5%;
 Query Match
Best Local Similarity 75.0
Matches 3; Conservative
 unknown
 ; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-338-382-17
 COUNTRY: USA
 TYPE: amino acid STRANDEDNESS: un)
 RESULT 12
US-09-345-264-17
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 ;
0
 Gaps
 Gaps
 Lerner, Righard A. TITLE OF INVENTION: SYNTHETIC HUMAN NEUTRALIZING MONOCLONAL ANTIBODIES TO HUMAN IMMUNOBEFICIENCY VIRUS
 .
0
 STREET: 10550 No. 6395275th Torrey Pines Road, TPC 8 STREE: CA
 NUMBER OF SEQUENCES: 92
CORRESPONDENCE ADDRESS:
ADDRESSEE: The Scripps Research Institute, Office of
 Score 16; DB 3; Length 5;
Pred. No. 3.8e+05;
1; Mismatches 0; Indels
Score 16; DB 3; Length 5;
Pred. No. 3.8e+05;
1; Mismatches 0; Indels
 COMPUTER LEAGURE

ZIP: 92037

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0

APPLICATION DATA:
PILING DATE: 06-U11-200

PRIOR APPLICATION NUMBER: US/09/611,451

FILING DATE: 2001-10-29

APPLICATION NUMBER: US 08/308,841

FILING DATE: 2001-10-29

APPLICATION NUMBER: US 08/33,619

FILING DATE: 26-ARY-1994

APPLICATION NUMBER: US 08/139,409

FILING DATE: 19-COT-1933

ATTORNEY/AGENT INFORMATION:
NAME: FALTING DATE: 19-COT-193

ATTORNEY/AGENT INFORMATION:
REFERENCE/DOCKET NUMBER: TSRI 332.3

TELECOMUNICATION LUMBER: 34,163

REFERENCE/DOCKET NUMBER: TSRI 332.3

TELECOMUNICATION LUMBER: 34,163

REFERENCE/DOCKET NUMBER: TSRI 332.3

TELECOMUNICATION LUMBER: TSRI 332.3

TELECOMUNICATION LUMBER: TSRI 332.3

TELEPHONE: (619) 784-2939
 TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 23:
 RESULT 15
US-07-717-331F-5
; Sequence 5, Application US/07717331F
 RESULT 14
US-09-611-451-23
US-09-611-451-23
; Sequence 23, Application US/09611451
; Patent No. 6395275
; GENERAL INFORMATION:
; APPLICANT: Barbas, Carlos F.
; Button, Dennis R.
 INFORMATION FOR SEQ ID NO: 23:
SEQUENCE CHARACTERISTICS:
LENGTH: 5 amino acids
 Query Match
Best Local Similarity 75.0%;
Matches 3; Conservative
 Query Match
Best Local Similarity 75.0%;
Matches 3; Conservative
 TYPE: amino acid
 1 FTLK 4
 1 FTLK 4
 FTLQ 5
 FILO
 US-09-611-451-23
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PAREAL NO. 5449405

GENERAL INFORMATION:
APPLICANT: June was reallah; Michael Nasrallah; and Joshua APPLICANT: June was reallah; Michael Nasrallah; and Joshua APPLICANT: June was reallah; Michael Nasrallah; Locus NUNGHION: State of the Self-Incompatability Locus NUNGHE OF SEQUENCE: 9
CORRESPONDENCE ADDRESS:
COUNTY: 208 AND ADDRESSE: 208 AND ADDRESSES: ADDRESSES
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GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
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- protein search, using sw model OM protein

4, 2004, 00:36:19; Search time 19 Seconds (without alignments) 35.448 Million cell updates/sec November Run on:

US-09-712-819D-12

1 FTLEISR 7 Title: Perfect score: Sequence: BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

Searched:

283416 segs, 96216763 residues

283416 Total number of hits satisfying chosen parameters:

sed Minimum DB Maximum DB

length: 0 length: 2000000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database :

PIR 79:\*
1: pir1:\*
2: pir2:\*
3: pir3:\*
4: pir4:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

| •         |               | 1 1     | 4     | 4       | , r   |                | 1 L    | 4 F   | (4)   | 1 5     |        | : -7   |       | 4 k   |       | ۱ ۲     | ۲ ا     | 1 14    | . H      |         | H       | 4       | 7       | . H   | . r   | . I   | ч   | V      | I-V    |        |
|-----------|---------------|---------|-------|---------|-------|----------------|--------|-------|-------|---------|--------|--------|-------|-------|-------|---------|---------|---------|----------|---------|---------|---------|---------|-------|-------|-------|-----|--------|--------|--------|
|           | u<br>O        | - utada | i edo | . utedo | . '   |                | chain. | chain | human | chain 1 | chain  | •      | •     | •     | •     | chain 1 | chain 1 | chain 1 | chain 1  | chain 1 | chain 1 | chain - | chain 1 | chain | chain | chain |     | •      | Ë.     |        |
|           | Description   | kanna   | 4     | kappa   | kappa | karre<br>karre | kappa  | kappa | CA3 - | kappa   | kappa  | kanna  |       |       | kappa | kappa   | kappa   | kappa   | kappa    | licht   | kappa   | kappa   | heavy   |       |       |       |     | light, |        |        |
|           | De            | , t     | ח ל   | Η       | ם מ   | ח ל            | ם מ    | Ϊ́    | SES   | μ       | ם מ    | ηÞ     | þ     | ם מ   | Π     | Hd      | Η       | ρĦ      | Iq       | Ъ       | Ig      | Ig      | H       |       |       |       |     | Ιg     |        |        |
|           |               | 1       |       |         |       |                |        |       |       |         |        |        |       |       |       |         |         |         |          |         |         |         |         |       |       |       |     |        |        |        |
| SB        |               | !<br>!  |       |         |       |                |        |       |       |         |        |        |       |       |       |         |         |         |          |         |         |         |         |       |       |       |     |        |        |        |
| SUMMARIES |               | 38      | 91    | 21      | 67    | 6              | 24     | 93    | 0     | 88      | 8.8    | 1.1    | -     | 55    | Ţ     | 14      | č.      | 9       | <u>ب</u> | 6       | 8       | 0:      | m       | 4.    | ᅼ     | 0     | =   | 4,     | ლ      | 0      |
| รร        | Π             | G3053   | KVMS1 | KVMS    | KVMS6 | 84032          | 84032  | 83409 | 15539 | H3053   | \$4035 | \$4033 | S2421 | 83409 | 83409 | 83409   | B2515   | 84218   | 825463   | PH103   | PL025   | 84032   | E2883   | 82450 | S2450 | 84544 | in  | 63     | C3415  | 37     |
|           | BB            | 7       | Н     | Н       | Н     | 7              | N      | N     | 0     | ~       | N      | (7     | N     | 7     | 0     | N       | ~       | N       | 7        | 7       | N       | 7       | (7      | 7     | 7     | 7     | N   | 7      | ~      | ~      |
|           | Length        | 74      | Н     | 113     | N     | $^{\circ}$     | ന      | 54    | 56    | 71      | 72     | 75     | 83    | 83    | 87    | 87      | 80      | 91      | 91       | 93      | 94      | 96      | 66      | 66    | O.    | 0     | 0   | 100    | 0      | 0      |
| οN        | Query         | 100.0   | ō     | ö       | 00    | 00.            | 100.0  | 7     | 7     | 7       | 7      | 7      | 7     | 87.9  | 7     | 87.9    | 7       | 7       | 87.9     | 7       | ۲.      | ٠.      |         | 7     | 7     | ۲.    |     | 87.9   | ٠.     |        |
|           | Score         | 33      | 33    | 33      | 33    | 33             | 33     | 29    | 70    | 29      | 29     | 59     | 29    | 50    | 29    | 53      | 29      | 29      | 53       | 29      | 29      | 20      | 29      | 50    | 20    | 00    | 53  | 9 0    | 20, 00 | N<br>N |
|           | Result<br>No. | щ       | 7     | m       | 4     | ហ              | φ      | 7     | Φ     | თ       | 10     | 11     | 12    | 13    | 14    | 15      | 16      | 17      | 8 F      | 13      | 20      | 7 0     | 77      | 23    | 24    | 25    | 9 1 | 7.7    | α c    | N      |

| light chain V | kappa chain V | kappa chain v | kanna chain V | kanna chain v | kanna<br>kanna | light chain V | kanna chain V | light obein 1 | light chain | in     |
|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------------|--------|
| PH1057        | S14590        | S14591        | S14594        | \$14592       | 814593         | PH1035        | E28195        | PH1044        | PH1099        | PH1056        | PH1100        | PH1041        | PH1098        | PH1040      | PH1045 |
|               |               |               |               |               |                |               |               |               |               |               |               |               |               | 103 2       |        |
|               | ο.            | ο.            | 6             | σ.            | 0              | 0,            | σ,            | 6             | o.            | o,            | 0             | 0,            | o,            | 87.9        | 6      |
| 87            | ω             |               |               |               |                |               |               |               |               |               |               |               |               |             |        |
| 29 87         |               | 50            | 53            | 53            | 5              | 29            | 29            | 29            | 29            | 29            | 29            | 29            | 29            | 29          | 29     |

## ALIGNMENTS

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C,Species: Mus musculus (house mouse)
C,Species: Mus musculus (house mouse)
C,Accession: G30538
R;Claflin, J.i.; Berry, J.
J. Immunol. 141, 4012-4019, 1988
A,Title: Genetics of the phosphocholine-specific antibody response to Streptococcus pne A,Reference number: A30534; MUD:89035545; PMID:3141511
A,Accession: G30538
A,Atatus: preliminary; nucleic acid sequence not shown; not compared with conceptual tr. A,Molecule type: mRNA
A,Residues: 1-74 <CLA>
C,Superfamily: immunoglobulin V region; immunoglobulin homology
C,Keywords: heterotetramer; immunoglobulin
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 100.0%; Score 33; DB 2; Length 74; 100.0%; Pred. No. 0.66;
 0; Indels
 0; Mismatches
 Query Match
Best Local Similarity 100.0%;
Matches 7; Conservative 0
RESULT
G30538
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Ig kappa chain V region (M167) - mouse
(S.Species: Mus musculus (house mouse)
(S.Species: Mus musculus (house mouse)
(S.Date: 30-Nov-1980 #sequence\_revision 30-Nov-1980 #text\_change 09-Jul-2004
(S.Accession: A01908
(S.Accession: A01908
(S.A.Vadikoff, S.; Potter, M.
Biochemistry 17, 2703-2707, 1978
(A.Fitle: kappa-Chain variable region from M167, a phosphorylcholine binding myeloma prot

A; Accession: A01908

A.Molecule type: protein
A.Residues: 1-112 < RUD>
A.Residues: 1-12 < RUD>
A.Residues: 1-12 < RUD>
A.Cross-references: UNIPROT: P01626
C;Compant: This chain was isolated from a myeloma protein that binds phosphorylcholine.
C;Complex: An immunoglobulin heterotetramer subunit consists of two identical light (kaj hain disulfide bonds. In some cases, such as IgA and IgM, the subunits associate into I C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Reywords: heterotetramer
F;16-95/Domain: immunoglobulin homology < IMM>
F;16-95/Domain: immunoglobulin predicted

; 0 Query Match
100.0%; Score 33; DB 1; Length 112;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 7; Conservative 0; Mismatches 0; Indels

0;

Gaps

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If Kappa chain V region - human (Species: Homo sapiens (man) (Species: Homo sapiens (man) (Species: Homo sapiens (man) (Species: Homo sapiens (man) (Species: Homo saylos) #sequence_revision 26-May-1995 #text_change 07-May-1999 (Accession: S34093 #sequence_revision 26-May-1995 #text_change 5.D.; Luzzatto, L. Evr. J. Immunol. 23, 391-397, 1993 #y.Title: V-kappa gene segments rearranged in chronic lymphocytic leukemia are distributed to the control of the
 A;Cross-references: EMBL:X67177
A;Note: the nucleotide sequence was submitted to the EMBL Data Library, July 1992
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
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 C;Species: Homo sapiens (man)
C;Date: 19-May-1994 #sequence_revision 26-May-1995 #text_change 09-Jul-2004
C;Accession: $40324
C;Accession: $40324
By: X;Klein, R.; Jaenichen, R.; Zachau, H.G.
Bur. J. Immunol. 23, 3248-3271, 1993
A;Title: Expressed human immunoglobulin chi genes and their hypermutation.
A;Reference number: $40312; MUD:94080891; PMID:8258341
Ig kappa chain - human
C;Species: Homo sapiens (man)
C;Date: 06-Mar-1994 #sequence_revision 26-May-1995 #text_change 21-Jan-2000
 A,Cross-references: EMBL:X72433; NID:g441334; PIDN:CAA51101.1; PID:g441335 C;Superfamily: immunoglobulin V region; immunoglobulin homology C;Keywords: heterotetramer; immunoglobulin F;30-110/Domain: immunoglobulin homology <1MM>
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 A;Status: preliminary; nucleic acid sequence not shown; translation not A;Molecnie type: DNA
A;Residues: 1-54 <WAG>
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 Length 133;
 Length 127;
 A;Cross-references: UNIPROT:QBTCD0; EMBL:X72434
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
F;33-112/Domain: immunoglobulin homology <IPM>
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 Score 33; DB 2;
Pred. No. 1.2;
 Score 33; DB 2;
Pred. No. 1.2;
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100.0%; Pred. No. ...
... 0; Mismatches
 0; Mismatches
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 100.0%;
 Ig kappa chain V region - human
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Best Local Similarity 100...
7; Conservative
 Conservative
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 91 FTLEISR 97
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C;Complex: An immunoglobulin heterotetramer subunit consists of two identical light (kap hain disulfide bonds. In some cases, such as IgA and IgM, the subunits associate into la C;Complex: An immunoglobulin v region; immunoglobulin homology
C;Keywords: heterotetramer
F;1-20/Domain: signal sequence #status predicted <SIG>F;1-20/Domain: signal sequence #status predicted <SIG>F;2-115/Domain: immunoglobulin homology <IMM>F;36-115/Domain: immunoglobulin homology <IMM>F;36-113/Disulfide bonds: #status predicted
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A, Molecule type: protein
A, Molecule type: protein
A, Molecule type: protein
A, Residues: 1-113 <APP>
Cross-references: UNIPROT: P01628
A, Cross-references: UNIPROT: P01628
C, Comment: This chain was isolated from a myeloma protein that binds phosphorylcholine.
C, Complex: An immunoglobulin heterotetramer subunit consists of two identical light (kap hain disulfide bonds: In some cases, such as IgA and IgM, the subunits associate into la C, Superfamily: immunoglobulin V region; immunoglobulin N region; immunoglobulin homology
 Mol. Immunol. 17, 711-718, 1980
A;Title: Amino acid sequence of the light chain variable region of M511, a phosphorylchd
A;Reference number: A01910; MUID:81052016; PMID:6776396
 ö
 0
 C;Date: 18-Aug-1982 #sequence_revision 18-Aug-1982 #text_change 09-Jul-2004 C;Accession: A01909 R;Selaing, B; Storb, U.
C[11 25, 47-58, 1981 A;Title: Somatic mutation of immunoglobulin light-chain variable-region genes. A;Reference number: A01909; MUID: 82002223; PMID: 6791832
 C;Species: Mus musculus (house mouse)
C;Species: Mus musculus (house mouse)
C;Date: 01-Sep-1981 #sequence_revision 01-Sep-1981 #text_change 09-Jul-2004
C;Accession: A01910
R;Appella, E.
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0
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 DB 1; Length 113;
 Indels
 A)Residues: 1-120 <SEL>
A)Cross-references: UNIPROT: P01627
A)Note: the sequence was determined from the germline gene C;Genetics:
 .,
 Ig kappa chain precursor V region (VK167) - mouse C;Species: Mus musculus (house mouse)
 100.0%; Score 33; DB
100.0%; Pred. No. 1;
iive 0; Mismatches
 C; Keywords: heterotetramer F;16-95/Domain: immunoglobulin homology <IMM>
 F;23-93/Disulfide bonds: #status predicted
 Ig kappa chain V region (M511)
 7; Conservative
 Conservative
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 1 FTLEISR 7
 FTLEISR 82
 Query Match
Best Local Similarity
 82
 Query Match
Best Local Similarity
Matches 7; Conserv
 FTLEISR 7
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 A; Accession: A01909
A; Molecule type: DNA
 92
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 Matches
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Ig kappa chain V region (V3a) - human (fragment)
(S.Species: Homo sapiens (man)
(S.Species: Homo sapiens (man)
(S.Species: Homo S24211
(S.Species: 19-Feb-1994 #sequence_revision 10-Nov-1995 #text_change 23-Jul-1999
(S.Accession: S24211
(S.F. Mitzel, S.; Zachau, H.G.

Bur. J. Immunol. 21, 1821-1827, 1991
A;Title: The human immunoglobulin kappa locus. Characterization of the duplicated O reg.

A;Refexence number: S24205; MUID:91330953; PMID:1907917
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 C.Species: Homo sapiens (man)
C.Date: 19-May-1994 #sequence_revision 26-May-1995 #text_change 23-Jul-1999
 A;Status: preliminary; translation not shown
A;Molecule type: mRNA
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A;Cross-references: EMBL:X72468; NID:g441404; PIDN:CAA51136.1; PID:g441405
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
 A Status: preliminary; translation not shown
A; Molecule type: mRNA
A; Residues: 1-75 - KLLE>
A; Cross-references: BABD: X72447; NID: g441362; PIDN: CAA51115.1; PID: g441363
C; Superfamily: immunoglobulin V region; immunoglobulin homology
C; Keywords: heterotetramer; immunoglobulin
 Gaps
 their hypermutation
 Gaps
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 A.Molecule type: DNA

Residues: 1-83 <PAR>

A; Residues: 1-83 <PAR>

A; Cross-references: EMEL:X59317; NID:g33270; PIDN:CAA42004.1; PID:g33271

C; Superfamily: immunoglobulin V region; immunoglobulin homology

C; Keywords: heterotetramer; immunoglobulin
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0
 72;
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 Length 75;
 Length 83;
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 Length
 C, Accession: 840337
R;Klein, R.; Jaenichen, R.; Zachau, H.G.
Bur. J. Immunol. 23, 3248-3271, 1993
A;Title: Expressed human immunoglobulin chi genes and the A;Reference number: 840312; MUID:94080891; PMID:8258341
A;Accession: 840337
 87.9%; Score 29; DB 2;
85.7%; Pred. No. 7.4;
iive 1; Mismatches (
 DB 2;
 DB 2;
 Score 29; DB;
Pred. No. 6.4;
1; Mismatches
 87.9%; Score 29; DB 2
85.7%; Pred. No. 6.6;
Live 1; Mismatches
 6.4;
 Ig kappa chain V-J-C region - human
 87.9%;
 Ig kappa chain V region - human
 6; Conservative
 Best Local Similarity 85.7
Matches 6; Conservative
 6; Conservative
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28 FTLKISR 34
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FTLKISR 36
 Query Match
Best Local Similarity
 7
 1 FTLEISR 7
 Query Match
Best Local Similarity
 7
 1 FTLEISR
 |||:|||
FTLKISR (
 A;Accession: S24211
A;Status: preliminary
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 Matches
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 RESULT 9
H30538
IG kappa chain V region (174.3F4) - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Date: 10-Feb-1989 #sequence_revision 10-Feb-1989 #text_change 09-May-1997
C;Accession: H30538
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A;Title: Ganetics of the phosphocholine-specific antibody response to Streptococcus pneu A;Ritle: Ganetics of the phosphocholine-specific antibody response to Streptococcus pneu A;Reference number: A30534; MUID:89035545; PMID:3141511
A;Accession: H30538
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A;Accession: H30534
A;Molecule type: mRNA
A;Molecule type: mRNA
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
 Cipero: Industry (itsyment)
Cipero: 102-Unl-1996 #sequence_revision 02-Unl-1996 #text_change 09-Unl-2004
Cipero: 02-Unl-1996 #sequence_revision 02-Unl-1996 #text_change 09-Unl-2004
Cipero: 155399
Riversack, F.; Papp, B.; Verboomen, H.; Raeymaekers, L.; Dode, L.; Bobe, R.; Enouf, J.;
Biol. Chem. 259, 1410-1416, 1994
A; Title: A sarco/endoplasmic reticulum Ca(2+)-Arpase 3-type Ca2+ pump is expressed in play. Reference number: 155399; MUID:94117459; PMID:8288608
A; Recession: 155399
A; Accession: 155399
A; Astatuse: preliminary; translated from GB/EWBL/DDBJ
A; Residues: 1-56 - RES
A; Residues: 1-56 - RES
Cipero: RENA
A; Residues: 1-56 - RES
Cipero: Cipero: NUNPROT:093084; GB:S68239; NID:9544921; PIDN:AAB29700.1; PID:9544922
C; Reywords: ATP
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 RESULT 10
840358
19 kappa chain - human
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C;Date: 06-Mar-1994 #sequence_revision 26-May-1995 #text_change 23-Jul-1999
C;Accession: 840388
R;Klein, R.; Jaenichen, R.; Zachau, H.G.
Bur. J. Immunol. 23, 3248-3271, 1993
A;Title: Expressed human immunoglobulin chi genes and their hypermutation.
A;Reference number: 840312; MUID:94080991; PMID:8258341
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 87.9%; Score 29; DB 2
85.7%; Pred. No. 6.3;
live 1; Mismatches
 0; Mismatches
 6; Conservative
 6; Conservative
 SERCA3 - human (fragment)
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43 FTLKISR 49
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FTLKISR 41
 1 FTLEISR 7
 Best Local Similarity
Matches 6; Conserv
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 Query Match
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87.9%; Score 29; DB 2; Length 87; 85.7%; Pred. No. 7.7; ive 1; Mismatches 0; Indels

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Matches 6; Conservative
 Search completed: November Job time: 20 secs
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63 FTLKISR 69
 1 FTLEISR 7
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 C;Accession: S34094
B;Wagner, S.D.; Inzzatto, L.
Eur. J. Immunol. 23, 391-397, 1993
A;Title: V-kappa gene segments rearranged in chronic lymphocytic leukemia are distribute
A;Reference number: S34076; WUID:93170387; PMID:8436174
A;Accession: S34094
A;Accession: S34094
A;Accession: Breliminary
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R;Wagner, S.D.; Luzzatto, L.
Eur. J. Immunol. 23, 391-397, 1993
A;Title: V-kappa gene segments rearranged in chronic lymphocytic leukemia are distribute A;Reference number: S34076; MUID:93170387; PMID:8436174
A;Accession: S34095
A;Attatus: preliminary
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C'Species: Homo sapiens (man)
C'Species: Homo sapiens (man)
C'Species: Homo sapiens (man)
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C'Accession: 634091; 834092
R'Wagner, 8.D.; Luzzatto, L.
R'Wagner, 8.D.; Imuzol. 23, 391-397, 1993
A'Title: V-kappa gene segents rearranged in chronic lymphocytic leukemia are distribute
A'Reference number: 834076; MUID:93170387; PMID:8436174
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 Ig kappa chain V region - human
C;Species: Homo sapiens (man)
C;Date: 13-Jan-1995 #sequence_revision 13-Jan-1995 #text_change 09-Jul-2004
 C;Species: Homo sapiens (man)
C;Date: 13-Jan-1995 #sequence_revision 13-Jan-1995 #text_change 09-Jul-2004
C;Accession: S34095
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 A;Cross-references: UNIPROT:QBTCD0; UNIPROT:Q9UL80; EMBL:X67179
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C;Keywords: heterotetramer; immunoglobulin
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Pred. No. 7.4;
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A; Cross-references: UNIPROT: QRNEKO; EMBL: X67175
A; Experimental source: patient 19
A; Accession: S34092
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Matches 6; Conservative
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Best Local Similarity 85.7%;
Matches 6; Conservative
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63 FTLKISR 69
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61 FTLKISR 67
 1 FILEISR 7
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 A; Molecule type: DNA
A; Residues: 1-83 < WAG>
 A;Accession: S34091
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Bad64349 onion yello
G7186 neurospora
Q813x5 homo sapien
Q71u22 rattus norv
Aac19167 rattus no
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Rudikoff S., Potter M.;
"Kappa Chain variable region from M167, a phosphorylcholine binding
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Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus.
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Framework-3.
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 A58EDFD6404B9726 CRC64;
 21-JUL-1986 (Rel. 01, Created)
21-JUL-1986 (Rel. 01, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
19 kappa chain V-II region MOPC 167.
 112 AA
 113 AA.
 By similarity.
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 AAH34142
O54994
Q6DCS6
EFG APPPP
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61
 Mus musculus (Mouse)
 82
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 P01628 mus musculu

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207320 pseudomonas

208621 pseudomonas

208653 neurospora

204796 bacillus pu

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Aaril024 mus musculu

Aaril024 mus musculu
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Aar10990 mus muscu
P01616 homo sapien
P01617 homo sapien
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Q9u180 homo sapien
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 P01626 mus musculu
P01628 mus musculu
P01627 mus musculu
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P01614 homo sapien
P06309 homo sapien
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 Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
 Description
 Q6p491
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Q8vc55
 P06310
Q8k122
 299m37
 28vci6
 1825181
 GenCore version 5.1.6
(c) 1993 - 2004 Compugen Ltd.
 Total number of hits satisfying chosen parameters:
 1825181 segs, 575374646 residues
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 Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
 Q91234
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Q6P491
Q8KOFB
 KV2C_MOUSE
KV2B_MOUSE
Q87X30
 AAR11017
KV2A HUMAN
KV2E HUMAN
 KV2G_MOUSE
Q9UL80
 OM protein - protein search, using sw model
 KV2C HUMAN
KV2D HUMAN
 KV2A_MOUSE
 Q7Z3Y5
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2: uniprot_trembl:*
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EMBL; K02415; AAA39051.1;
PIR; A01909; KVMS67.
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 1 FTLEISR 7
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 NCBI_TaxID=323;
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 This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its was by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/amnounce/or send an email to license@ibs-sib.ch).
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 Gaps
 Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi,
Mammalia, Butheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
 Selsing E., Storb U.;
"Somatic mutation of immunoglobulin light-chain variable-region
 .
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 100.0%; Score 33; DB 1; Length 113; 100.0%; Pred. No. 7.8; cive 0; Mismatches 0; Indels
 Complementarity-determining-1.
 Complementarity-determining-2.
 Framework-3.
Complementarity-determining-3
 KW Direct protein sequencing; Immunoglobulin V region.

FT DOMAIN 24 39 Complementarity-determinin PT DOMAIN 40 54 Framework-1.

FT DOMAIN 62 93 Framework-3.

T DOMAIN 62 93 Framework-3.

T DOMAIN 94 102 Complementarity-determining Framework-3.

T DOMAIN 103 112 Framework-4.

T DOMAIN 103 112 Framework-4.

T DOMAIN 103 112 Framework-4.

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SEQUENCE 113 AA; 12406 MM.
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 21-JUL-1986 (Rel. 01, Created)
21-JUL-1986 (Rel. 01, Last sequence update)
15-JUL-1999 (Rel. 38, Last annotation update)
IG kappa chain V-II region VKappal67 precursor.
Mus musculus (Mouse).
...... 01, Last sequence update)
J-J-UL-2004 (Rel. 44, Last annotation update)
Mis musculus (Mouse).
Eukaryota; Merannota
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 MEDLINE=81052016; PubMed=6776396;
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 STANDARD;
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 1 FTLEISR 7
 SEQUENCE FROM N.A.
 NCBI_TaxID=10090;
 NCBI_TaxID=10090;
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P01627;
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 Buell C. Joachar W. Lindeberg M., Selengut J., Paulsen I.T., Gwinn M.L., Dodson R.J., DeBoy R.T., Durkin A.S., Kolonay J.F., Madupu R., Daugherty S.C., Brinkac L.M., Beanan M.J., Haft D.H., Nelson W.C., Davidsen T.M., Zafar N., Zhou L., Liu J., Yuan D.H., Khouri H.M., Pedorova N.B., Tran B., Russell D., Berry K.J., Utterback T.R., Van Aken S.E., Feldblyum T.V., D'Ascenzo M.B., Deng W.-L., Ramos A.R., Alfano J.R., Cartinhour S., Chatterjee A.K., Bender C.L., White O., Fraser C.M., Collmer A.; Feddomonas syringae pv. tomato of the Arabidopsis and tomato pathogen Pseudomonas syringae pv. tomato D23000., Proceedings of the Arabidopsis and tomato pathogen Proc. Natl. Acad. Sci. U.S.A. 100:10181-10186 (2003).
 Gaps
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 Ig kappa chain V-II region VKappa167.
Framework-1.
 Pseudomonas syringae (pv. tomato).
Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales;
 STRAIN=DC3000;
MEDLINE=22834015; PubMed=12928499; DOI=10.1073/pnas.1731982100;
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 .;
0
 Complementarity-determining-3.
By similarity.
63BB571F0E4DE3E8 CRC64;
 100.0%; Score 33; DB 1; Length 120; 100.0%; Pred. No. 8.3; ive 0; Mismatches 0; Indels
 Complementarity-determining-1.
 Complementarity-determining-2.
 Length 306;
 Indels
 306 AA; 34515 MW; D13FCA5790ACB33D CRC64;
 Q87X30;
Q0-JUN-2003 (TrEMBLrel. 24, Created)
01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
 90.9%; Score 30; DB 2; Le
85.7%; Pred. No. 1.2e+02;
:ive 1; Mismatches 0;
 306 AA.
 Framework-3.
 Framework-2
 PRT;
HSSP, P01751; INQB.
InterPro; IPR007110; Ig-like.
InterPro; IPR003596; Ig_v.
Pfam; PP00047; Ig]; 1.
SMART; SM00406; IGv. 1.
PROSITE; PSS0835; IG LIKE; 1.
Immunoglobulin V region; Signal.
 Pseudomonadaceae; Pseudomonas.
 13280 MW;
 Dehydrogenase, putative.
OrderedLocusNames=PSPTO4360;
 Proc. Natl. Acad. Sci. U.S.A
EMBL, AE016871, AAO57810.1;
TIGR; PSPTO4360; -.
 Similarity 85.7%;
6; Conservative
 Query Match
Best Local Similarity luv...
7; Conservative
 PRELIMINARY;
 43
59
74
81
 270 FTLDISR 276
 96 FTLEISR 102
 1 FTLEISR 7
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MEDLINE-22423060; PubMed=12534463;
Nelson K.E., Weinel C., Paulsen I.T., Dodson R.J., Hilbert H.,
Nelson K.E., Weinel C., Paulsen I.T., Dodson R.J., Hilbert H.,
Martins dos Santos V.A.P., Fouts D.E., Gill S.R., Pop M., Holmes M.,
Brinkac L.M., Beanan M.J., DeBoy R.T., Daugherty S.C., Kolonay J.F.,
Madupu R., Nelson W.C., White O., Peterson J.D., Khouri H.M.,
Mance I., Chris Lee P., Holtzapple E.K., Scanlan D., Tran K.,
Moazez A., Utterback T.R., Rizzo M., Lee K., Kosack D., Moestl D.,
Wedler H., Lauber J., Stjepandic D., Hoheisel J., Straetz M., Heim S.,
Kiewitz C., Bisen J.A., Timmis K.N., Duesterhoeft A., Tuemmler B.,
 SEQUENCE FROM N.A. Schulte U., Aign V., Hoheisel J., Brandt P., Fartmann B., Holland R., Nyakatura G., Mewes H.W., Mannhaupt G.; Submitted (DEC-2000) to the EMBL/GenBank/DDBJ databases.
 Pseudomonas putida (strain KT2440).
Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadaceae; Pseudomonadaceae; Pseudomonas.
NCBI_TaxID=160488;
 Neurospora crassa.
Eukaryota, Fungi, Ascomycota, Pezizomycotina, Sordariomycetes,
Sordariomycetidae, Sordariales, Sordariaceae, Neurospora.
 01-JUN-2003 (TrEMBLrel. 24, Created)
01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
3-beta hydroxysteroid dehydrogenase/isomerase family protein,
 90.9%; Score 30; DB 2; Length 330; 85.7%; Pred. No. 1.3e+02; 1. Mismatches 0; Indels
 "Complete genome sequence and comparative analysis of the metabolically versatile Pseudomonas putida KT2440."; Environ. Microbiol. 4:799-808 (2002).

EMBL; &RAD16/77; AAN66543.1; -.

IIGR; PP0918; -.
 Complete proteome, Isomerase.
SEQUENCE 330 AA, 37056 MW; A60498E263D91AC5 CRC64;
 01-MAR-2001 (TrEMBLrel. 16, Created)
01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
1-MAR-2004 (TrEMBLrel. 26, Last annotation update)
Related to cyclin homolog UMB3.
Name=B2108.140;
 330 AA.
 355 AA
 GO:0016853; F:isomerase activity; IEA.
 PRT;
 PRT;
 OrderedLocusNames=PP0918;
 PRELIMINARY;
 6; Conservative
 PRELIMINARY;
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294 FTLDISR 300
 Best Local Similarity
Matches 6; Conserv
 1 FTLEISR 7
 SEQUENCE FROM N.A.
 SEQUENCE FROM N.A.
 NCBI_TaxID=5141;
 Fraser C.M.;
 Q9HE63;
01-MAR-2001
 putative
 Query Match
 Q88PD2
 Q9HE63
RESULT 5
Q88PD2
 RESULT 6
 Q9HE63
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 -!- SIMILARITY: Belongs to the type II topoisomerase family.

BMBL; AX167867; AA061450.1; --
GO; GO:0005524; F:ATP binding; IEA.
GO; GO:0003677; F:DNA binding; IEA.
GO; GO:0003677; F:DNA binding; IEA.
GO; GO:0005265; P:DNA topoisomerase (ATP-hydrolyzing) activity; IEA.
INTERPO; IPR001241; DNA topoisomerase (ATP-hydrolyzing) activity; IEA.
Fam: PF00024; DNA gyraseB; 1.
Pfam: PF00024; DNA gyraseB; 1.
SMART; SM0433; TOP2C; 1.
 Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi,
Mammalia, Butheria, Primates, Catarrhini, Hominidae, Homo.
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 .,
 90.9%; Score 30; DB 2; Length 355; 85.7%; Pred. No. 1.4e+02; ive 1; Mismatches 0; Indels
 Length 375;
 h Similarity 85.7%; Pred. No. 1.4e+02; Similarity 85.7%; Pred. No. 1.4e+02; 6; Conservative 1; Mismatches 0; Indels
 Name-gyrB;
Bacillus pumilus (Bacillus mesentericus).
Bacteria; Firmicutes; Bacillales; Bacillaceae; Bacillus.
 355 AA; 39661 MW; A081A8CC97B9B00E CRC64;
 375 AA; 41568 MW; 04A49AD8704E3A6D CRC64;
 (TrEMBLrel. 24, Created)
(TrEMBLrel. 24, Last sequence update)
(TrEMBLrel. 25, Last annotation update)
 01-OCT-2003 (TrEMBLrel. 25, Last sequence update) 01-MAR-2004 (TrEMBLrel. 26, Last annotation update) Rearranged VKA17 V gene segment (Fragment).
 375 AA.
 86 AA.
 PROSITE; PS00177; TOPOISOMERASE II; 1.
ATP-binding; Isomerase; Topoisomerase.
NON TER 1
 01-0CT-2003 (TrEMBLrel. 25, Created)
01-0CT-2003 (TrEMBLrel. 25, Last seq
01-MAR-2004 (TrEMBLrel. 26, Last ann
 PRT;
 01-JUN-2003 (TrEMBLrel, 24, I
01-OCT-2003 (TrEMBLrel, 25, I
Gyrase B subunit (Fragment).
 6; Conservative
 PRELIMINARY;
 PRELIMINARY;
 FTLEIAR 370
 Name=VKA17;
Homo sapiens (Human)
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61 FTLEINR 67
 Local Similarity
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 1 FTLEISR 7
 Local Similarity
 1 FTLEISR
 NCBI_TaxID=9606;
 Q847Y6;
01-JUN-2003
Cyclin.
SEQUENCE
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 364
 Query Match
 Query Match
 Q7Z3Y5;
 Q847Y6
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MEDLINE=20448942; PubMed=10992488;
Malkiel S., Liao L., Cunningham M.W., Diamond B.;
"T-Cell-dependent antibody response to the dominant epitope of streptococcal polysaccharide, N-acetyl-glucosamine, is cross-reactive with cardiac myosin.";
Infect Immun. 68:5803-5808(2000).
EMBL; PRO0558; PLO258.
PIR; S26334; S26334.
PDB; IDLF; X-ray; -. InterPro; IPR003596; Ig.v.
InterPro; IPR003596; Ig.v.
PFAM; PRO00404; ig.l.
 87.9%; Score 29; DB 2; Length 104;
85.7%; Pred. No. 69;
Live 1; Mismatches 0; Indels
 104 AA; 11360 MW; SDA8BBFD5F0AA1AE CRC64;
 PRT;
 SMART; SM00406; IGV; 1.
PROSITE; PS50835; IG LIKE; 1.
 6; Conservative
 PRELIMINARY;
 PRELIMINARY;
 104
 73 FTLKISR 79
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68 FTLKISR 74
 7
 Query Match
Best Local Similarity
 1 FTLEISR 7
 1 FTLEISR
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 SEQUENCE FROM N.A.
STRAIN=B6.Sle1; TISSUE=Spleen;
Liang Z., Chen C., Chen C., Kreska D., Hsu K., Zhou J.X., Mohan C.;
Liang Z., Xie C., Chen C., Kreska D., Hsu K., Zhou J.X., Mohan C.;
"Antinuclear autoantibodies from B6.Sle1 mice.";
Submitted (SEP-2003) to the EMBL/GenBank/DDBJ databases.
BEL; AX436880; AAR11040.1; -.
NON TER 102 102
 TISSUE=Hoddkin lymphoma;
Tissuely M., Rosenquist R., Sundstroem C., Amini R.M., Kuppers R.,
Tinguely M.L., Brauninger A.;
Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
EMBL, AJ564426; CAD92033.1; -.
InterPro; IPR007110; Ig-11ke.
InterPro; IPR007110; Ig-11ke.
InterPro; IPR0071596; Ig-v.
Pfam; PF00047; ig; 1.
SWART; SM00406; IGv. 1.
 Bukaryota; Metazoa, Chordata, Craniata, Vertebrata; Buteleostomi,
Mammalia; Butheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus.
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 87.9%; Score 29; DB 2; Length 102;
85.7%; Pred. No. 68;
ive 1; Mismatches 0; Indels
 Score 29; DB 2; Length 86;
Pred. No. 57;
1; Mismatches 0; Indels
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01-0CT-2000 (TrEMBLrel. 15, Last sequence update)
01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
Anti-myosin immunoglobulin light chain variable region
(Fragment).
 102 AA; 11112 MW; A08600D2B09ABA92 CRC64;
 86 AA; 9764 MW; D198FC04FE0C78FD CRC64;
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02-MAR-2004 (TrEMBLrel. 27, Created)
02-MAR-2004 (TrEMBLrel. 27, Last sequence update)
02-MAR-2004 (TrEMBLrel. 27, Last annotation update)
ANA immunoglobulin kappa light chain (Fragment).
Mus musculus (Mouse)
 PRT; 104 AA.
 102 AA.
 PRT;
 Query Match
Best Local Similarity 85.7%;
Matches 6; Conservative
 6; Conservative
 PRELIMINARY;
 PRELIMINARY;
 (Fragment).
Mus musculus (Mouse).
 74 FTLKISR 80
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FTLKISR 61
 Best Local Similarity
 1 FTLEISR 7
 1 FTLEISR 7
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SEQUENCE FROM N.A.
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 NCBI_TaxID=10090;
 86
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 Query Match
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 SEQUENCE FROM N.A.
STRAIN=B6.Sle1; TISSUE=Spleen;
Liang Z., Xie C., Chen C., Kreska D., Hsu K., Zhou J.X., Mohan C.;
Liang Z., Xie C., Chen C., Kreska D., Hsu K., Zhou J.X., Mohan C.;
"Antinuclear autoantibodies from B6.Sle1 mice.";
Submitted (SEP-2003) to the EMBL/GenBank/DDBJ databases.

EMBL; AY436864; AAR11024.1; -.
 ANA immunoglobulin kappa light chain (Fragment).
Mus musculus (Mouse).
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Butheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
NCBI_TaxID=10090;
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Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
NCBI_TaxID=10090;
 .;
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 Length 104;
 Indels
 104 104
104 AA; 11310 MW; 2CF631F3058E2BB9 CRC64;
 AAR11024;
02-MAR-2004 (TrEMBLrel. 27, Created)
02-MAR-2004 (TrEMBLrel. 27, Last sequence update)
02-MAR-2004 (TrEMBLrel. 27, Last annotation update)
ANA immunoglobulin kappa light chain (Fragment).
Mus musculus (Mouse).
 02-WAR-2004 (TrEMBLrel. 27, Created) 02-WAR-2004 (TrEMBLrel. 27, Last sequence update) 02-WAR-2004 (TrEMBLrel. 27, Last annotation update)
 Query Match 87.9%; Score 29; DB 2; Best Local Similarity 85.7%; Pred. No. 69; Matches 6; Conservative 1; Mismatches
104 AA.
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Search completed: November 4, 2004, 00:53:57 Job time : 105 secs
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74 FTLKISR 80
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68 FTLKISR 74
 Query Match
Best Local Similarity
 1 FTLEISR 7
 NCBI_TaxID=10090;
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 AAR10990
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SEQUENCE FROM N.A.

STRAIN=B6.Slei; TISSUE=Spleen;
Liang Z., Xie C., Chen C., Kreska D., Hsu K., Zhou J.X., Mohan C.;
Submitted (SEP-2003) to the EMBL/GenBank/DDBJ databases.

BMBL; AY436896; AAR11056.1; -.

NON TER 104 104
SRQÜENCE 104 AA; 11327 MW; BFC116BEF36AB5IA CRC64;
 SEQUENCE FROM N.A.
STRAIN=B6.Sle1; TISSUE=Spleen;
Liang Z., Xie C., Chen C., Kreska D., Hsu K., Zhou J.X., Mohan C.;
"Antinuclear autoantibodies from B6.Sle1 mice.";
Submitted (SEP-2003) to the EMBL/GenBank/DDBJ databases.
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STRAIN=B6.Sle1; TISSUB=Spleen;

STRAIN=B6.Sle1; TISSUB=Spleen;

"Antinuclear autoantibodies from B6.Sle1 mice.";

Submitted (SEP-2003) to the EMBL/GenBank/DDBJ databases.

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105 105

SEQUENCE 105 AA; 11378 MM, BCB358D08600CEC0 CRC64;
 Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Butheria, Rodentia, Sciurognathi, Muridae, Mus.
NCBI_TaxID=10090;
 Mus musculus (Mouse). Elementary Muscalary (Mouse) Muscalary (Mouse) (Mouse) Muscalary (Mouse) .
 0;
 87.9%; Score 29; DB 2; Length 104; 85.7%; Pred. No. 69;
 87.9%; Score 29; DB 2; Length 104;
85.7%; Pred. No. 69;
cive 1; Mismatches 0; Indels
 0; Indels
 104 104
104 AA; 11304 MW; 9358D08600C6E65A CRC64;
 105 AA; 11378 MW; BCB358D08600CBC0 CRC64;
 Last sequence update)
Last annotation update)
 AARI1074,
02-MAR-2004 (TrEMBLrel. 27, Created)
02-MAR-2004 (TrEMBLrel. 27, Last sequence update)
02-MAR-2004 (TrEMBLrel. 27, Last annotation update)
 ANA immunoglobulin kappa light chain (Fragment).
 02-MAR-2004 (TrEMBLrel. 27, Created)
02-MAR-2004 (TrEMBLrel. 27, Last sequence updat
02-MAR-2004 (TrEMBLrel. 27, Last annotation upd
Mus munoglobulin Kappa light chain (Fragment)
Mus musculus (Wouse)
 104 AA
 105 AA
 1; Mismatches
 PRT;
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 Query Match
Best Local Similarity 85.7
Matches 6; Conservative
 PRELIMINARY;
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 PRELIMINARY;
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73 FTLKISR 79
 74 FTLKISR 80
 1 FTLEISR 7
 Local Similarity
 1 FILEISR 7
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Mammalia; Eutheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus.
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 Score 29; DB 2; Length 105; Pred. No. 70;
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02-MAR-2004 (TrEMBLrel. 27, Last sequence update)
02-MAR-2004 (TrEMBLrel. 27, Last annotation update)
ANA immunoglobulin kappa light chain (Fragment).
Mus musculus (Mouse).
 109 AA
 1; Mismatches
 Mismatches
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 87.9%;
Query Match
Best Local Similarity 85.7
Matches 6; Conservative
 PRELIMINARY;
 6; Conservative
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 20-DEC-2002; 2002WO-US041362
 21-DEC-2001; 2001US-0344874P
 Guo H, Aiyappa A,
 (first entry)
(IDEX-) IDEXX LAB INC
 WPI; 2003-598521/56
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Matches 7; Conserv
Canis familiaris.
 WO2003060080-A2.
 Sequence 32 AA;
 20-MAY-2004
 24-JUL-2003
ADM08848;
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 Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
 Aaw39804 Adi22125 Aar47511 Aay70790 Aay32261 Aby32348 Adg32348 Adg32386 Adg32360 I
 Aay29910 F
Aay29912 F
Adn38471 N
 GenCore version 5.1.6
(c) 1993 - 2004 Compugen Ltd.
 Total number of hits satisfying chosen parameters:
 2002273 seqs, 358729299 residues
 Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
 protein search, using sw model
 AAE06969
AAR40214
ABG76560
AAE06992
 AAW39803
AAW39886
AAW39802
 ADM08547
ADM08548
 AAW39801
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AAY70790
 AAY29910
AAY29912
ADN38471
 ADM08848
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ABP43484
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AAW39899
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geneseqp2000s;
geneseqp2000s;
geneseqp2001s;
geneseqp2002s;
geneseqp2003bs;
geneseqp2003bs;
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 canine; dog; heavy; immunoglobulin; antibody light chain variable domain; antiallergic; allergy; IgE; gene therapy; kappa species; VL framework;
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 New canine heavy and light chain variable domain polypeptides, useful for treating canine allergy.
 The invention relates to a novel canine heavy or light chain variable domain polypeptide. The protein of the invention demonstrates antiallergic activity and may be useful for treating canine allergy, possibly via gene therapy. The current sequence is that of a canine immunoglobulin light chain variable domain framework (FR) peptide of t
Ada33745 Abu39673 Abu39673 Abu47800 Abu47800 Abp62674 Abp62674 Abp62674 Adm08541 Adm08541 Adm08539 Adm08539 Adm08539 Adm08539 Adm08539 Adm08539 Adm08539 Adm08539 Adm0859 Adm0859 Adm0859 Adm0859 Adm0859 Adm0859 Adm0859 Adm
 Canine immunoglobulin kappa VL species framework 3 peptide 60.
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 ABU41467
ABU27800
ABU27800
ABB6295
ABP62672
ABP62672
ABP62674
AAU70400
AAU708533
ADU33286
ADU33286
ADG331286
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ADG331286
ADG31286
 Lawton
 AAR92994
 AAR80082
 Claim 43; Page 111; 130pp; English.
 AA.
 ADM08848 standard; peptide; 32
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New canine heavy and light chain variable domain polypeptides, useful for treating canine allergy.
 canine; dog; heavy; immunoglobulin; antibody light chain variable domain; antiallergic; allergy; IgB; gene therapy; kappa subgenus; VL framework;
 New canine heavy and light chain variable domain polypeptides, useful for
 The invention relates to a novel canine heavy or light chain variable domain polypeptide. The protein of the invention demonstrates antiallerstic activity and may be useful for treating canine allergy, possibly via gene therapy. The current sequence is that of a canine immunoglobulin light chain variable domain framework (FR) peptide of the
 Canine immunoglobulin kappa VL subgenus framework 3 peptide 25.
 Match 100.0%; Score 33; DB 7; Length 32; Local Similarity 100.0%; Pred. No. 4.1; sonservative 0; Mismatches 0: Thele
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 Lawton
 Claim 42; Page 109; 130pp; English.
 Claim 42; Page 109; 130pp; English.
 ADM08548 standard; peptide; 32 AA.
 20-DEC-2002; 2002WO-US041362
 21-DEC-2001; 2001US-0344874P
 Aiyappa A,
 20-DEC-2002; 2002WO-US041362.
 21-DEC-2001; 2001US-0344874P
 Aiyappa A,
 (first entry)
 treating canine allergy
 (IDEX-) IDEXX LAB INC
 (IDEX-) IDEXX LAB INC
 WPI; 2003-598521/56.
 WPI; 2003-598521/56.
 FTLEISR 21
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 Guo H,
 Canis familiaris
 1 FTLEISR
 Guo H,
 WO2003060080-A2
 WO2003060080-A2.
 Sequence 32 AA;
 20-MAY-2004
 24-JUL-2003
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 canine; dog; heavy; immunoglobulin; antibody light chain variable domain; antiallergic; allergy; IgB; gene therapy; kappa subgenus; VL framework;
 New canine heavy and light chain variable domain polypeptides, useful for treating canine allergy.
 The invention relates to a novel canine heavy or light chain variable domain polypeptide. The protein of the invention demonstrates antiallargic activity and may be useful for treating canine allergy, possibly via gene therapy. The current sequence is that of a canine immunoglobulin light chain variable domain framework (FR) peptide of the
 canine; dog; heavy; immunoglobulin; antibody light chain variable doma
antiallergic; allergy; IgE; gene therapy; kappa species; VL framework;
 Gaps
 Canine immunoglobulin kappa VL subgenus framework 3 peptide 24.
 ö
 Canine immunoglobulin kappa VL species framework 3 peptide 63.
 DB 7; Length 32;
 0; Indels
 0; Mismatches
 100.0%; Score 33; 100.0%; Pred. No.
 Lawton R;
 claim 43; Page 111; 130pp; English
 ADM08547 standard; peptide; 32 AA.
 ADM08851 standard; peptide; 32 AA.
 Ą
 20-DEC-2002; 2002WO-US041362.
 21-DEC-2001; 2001US-0344874P.
 (first entry)
 (first entry)
 Krah ER, Guo H, Aiyappa
 Best_Local Similarity 100 Matches 7; Conservative
 (IDEX-) IDEXX LAB INC.
 WPI; 2003-598521/56
 FTLEISR 21
 1 FILEISR 7
 FTLEISR 21
 FTLEISR 7
 Canis familiaris.
 Canis familiaris.
 WO2003060080-A2.
 Sequence 32 AA;
 20-MAY-2004
 20-MAY-2004
 24-JUL-2003
 15
 ADM08547;
 Query Match
 ADM08851;
 Н
 15
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RESULT 3 ADM08547

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Gaps . 0

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Gaps

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domain polypeptide. The protein of the invention demonstrates antiallergic activity and may be useful for treating canine allergy, possibly via gene therapy. The current sequence is that of a canine immunoglobulin light chain variable domain framework (FR) peptide of the
to a novel canine heavy or light chain variable
 Mouse germline kappa light chain variable (VK) region, 167/24.
 100.0%; Score 33; DB 7; Length 32; 100.0%; Pred. No. 4.1; ive 0; Mismatches 0; Indels
 Jones ST,
 AAE06969 standard; protein; 100 AA.
 ×
 Newman
 02-FEB-2001; 2001WO-US003537.
 (MILL-) MILLENNIUM PHARM INC.
 03-FEB-2000; 2000US-00497625
 (first entry)
 Horvath C,
 invention relates
 21
 1 FTLEISR 7
 FTLEISR
 WO200157226-A1.
 Sequence 32 AA;
 16-OCT-2001
 09-AUG-2001
 Larosa GJ,
 invention
 15
 AAE06969;
 Mus sp
 RESULT 5
AAEO 6969
AAEO 6969
XX
AAEO 6969
XX
AAEO 6969
XX
AAEO 7

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The patent discloses a humanised antibody or its antigen-binding fragment, having binding specificity for CC-chemokine receptor 2 (CCR2), comprising an antigen binding region of non-human origin and at least a portion of an immunoglobulin of human origin. The humanised antibodies are useful for inhibiting the interaction of a cell expressing CCR2. They are useful for inhibiting to treating HIV infection. The proteins of the invention are useful for inhibiting leukocyte trafficking, for treating CCR2—mediated disorders such as inflammatory disorder, autoimmune disorders such as inflammatory disorder, autoimmune disorders such as inflammatory disorder, autoimmune are useful in therapy or diagnosis, and in the manufacture of a medicament for treating CCR2—mediated disease. They are also useful for treating allergy, anaphylaxis, malignancy, chronic and acute Mouse; humanised antibody; CC-chemokine receptor 2; CCR2; nephrotropic; neuroprotective; immunosuppressive; human immunodeficiency virus; HIV infection; Vytostatic; vasotropic; leukocyte trafficking; allergy; inflammatory disorder; autoimmune disorder; rheumatoid arthritis; shock; multiple sclerosis; autherogenesis; atherosclerosis; restenosis; asthma; anaphylaxis; malignancy; inflammation; stenosis; allograft rejection; fibrotic disease; angioplasty; acquired immune deficiency syndrome; AIDS; inflammatory glomerulopathy; vascular intervention; neointimal hyperplasia; VK; kappa light chain variable region. Humanized immunoglobulin for treating a CC-chemokine receptor 2-mediated disorder in a patient, comprises a binding specificity for CCR2, and a non-human antigen binding region and human immunoglobulin. o'keefe O'brien S, Disclosure; Page 151; 183pp; English WPI; 2001-488888/53

Score 33; DB 2; Length 104; Pred. No. 14;

100.08;

Query Match Best Local Similarity

Sequence 104 AA;

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A humanised antibody is claimed in which the AA sequences of the CDRs are at least 60% homologous with light chain CDRs 1-3, and heavy chain CDRs 1-3 (see AAQ48174-9, AAR40216-21). The first step to humanise a moroclonal antibody by CDR-grafting is to determine the nucleotide and predicted AA sequence of the starting antibody light and heavy variable domains. The simplest method is from cDNA. RF-HBs-1 is an hybridoma cell line. Its Mabs contain mouse anti-hepatitis B surface antigen heavy and light chains are shown in AAQ48172/R40214 (light) and AAQ48173/R40215 (heavy). (Updated on 25-MAR-2003 to correct PN field.)
inflammation, histamine and IgB- mediated allergic reaction, shock, stenosis, allograft rejection, fibrotic disease, asthma, inflammatory glomerulopathies, acquired immune deficiency syndrome (AIDS), restenosis associated with vascular intervention, including angioplasty and/or stent placement in a mammal. Humanised antibodies are also useful for inhibiting narrowing of the lumen of a vessel in a mammal, and inhibiting neorintimal hyperplasia of a vessel in a mammal, preferably associated with vascular intervention. The present sequence is mouse germline kappa light chain variable (VK) region, 167/24
 ö
 Humanised antibody against hepatitis - has complementarity determining regions of variable domains from a non-human antibody and constant
 Gaps
 mouse hybridoma cell line RF-HBs-1 antibody light chain.
 ;
0
 Length 100;
 Indels
 Humanised antibody; complementarity determining region;
hepatitis B virus; surface antigen.
 0
 4
 Score 33; DB; Pred. No. 13; 0; Mismatches
 Disclosure; Page 24-25; 48pp; English
 AAR40214 standard; protein; 104 AA.
 domains from a human antibody.
 93WO-GB000267.
 100.0%;
 92GB-00002796
 100.0%;
 (WELL) WELLCOME FOUND LID.
 (first entry)
 Query Match
Best Local Similarity 100.
 (revised)
 WPI; 1993-272894/34.
N-PSDB; AAQ48172.
 82
 1 FTLEISR 7
 76 FTLEISR
 Sequence 100 AA;
 09-FEB-1993;
 11-FEB-1992;
 WO9316192-A1
 19-AUG-1993.
 Sequence of
 25-MAR-2003
04-FEB-1994
 Synthetic.
 Crowe JS;
 AAR40214;
 AAR40214
 RESULT
 8888888888888
 à
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virus;

"Complementarity determining region 1"

Location/Qualifiers

24. .39 /label= CDR1

/note=

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HIV infection; cytostatic; vasotropic; leukocyte trafficking; allergy; inflammatory disorder; autoimmune disorder; rheumatoid arthritis; shock; multiple sclerosis; atherogenesis; atherosclerosis; restemosis; asthma; anaphylaxis; malignancy; inflammation; stemosis; allograft rejection; fibrotic disease, angioplasty; acquired immune deficiency syndrome; AIDS; inflammatory glowerulopathy; vascular intervention; 1D9 antibody; neointimal hyperplasia; VK; kappa light chain variable region.
 neuroprotective; immunosuppressive; human immunodeficiency
 Homo sapiens
 Region
 Region
 Region
 .
0
 The invention relates to a human monoclonal antibody or its antigen binding fragments, which exhibit immunological binding affinity for a hepatitis c virus (HCV) El antigen, comprising an amino acid sequence homologous to the binding portion of a human antibody Fab molecule from a combinatorial antibody library. The vaccine composition comprising the antibodies or antigen binding fragments against HCV El or E2 antigen its hypervariable region is useful in treating or preventing HCV monoclonal antibodies against HCV El antigen binman monoclonal antibodies against HCV El antigen
 Human; HCV; hepatitis C virus; El antigen; monoclonal antibody; vaccine; hepatotropic; Fab; hypervariable region; E2 antigen; antibody.
 Vaccine comprising a human monoclonal antibody against hepatitis C virus (HCV) B1 or B2 antigen, useful for treating or preventing HCV infection.
 Gaps
 ö
 5; Length 111;
 Indels
 ;
 100.0%; Score 33; DB 100.0%; Pred. No. 15;
 Mismatches
 HCV E1 antigen monoclonal antibody #48.
 ABG76560 standard; protein; 111 AA.
 Disclosure; Page 53; 64pp; English
 .0
 (KARO-) KAROLINSKA INNOVATIONS
 12-JAN-2001; 2001US-0260889P.
 14-JAN-2002; 2002WO-SE000044
 Drakenberg K, Persson MAA;
 (first entry)
 Conservative
 82
 WPI; 2002-608502/65.
 7
 FTLEISR
 1 FTLEISR
 Sequence 111 AA;
 WO200260954-A1.
 Homo sapiens,
 05-NOV-2002
7;
 08-AUG-2002
 ABG76560;
 Query Match
Matches
 ABG76560
 RESULT
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The patent discloses a humanised antibody or its antigen-binding

C fragment, having binding specificity for CC-chemokine receptor 2 (CCR2),

Comprising an antigen binding region of non-human crigin and at least a

C comprising an antigen binding region of a coll expressing cast a

c portion of an immunoglobulin of human crigin. The humanised antibodies

are useful for inhibiting the interaction of a cell expressing CCR2. They

created the confidence of the collection of a cell expressing CCR2. They

invention are useful for inhibiting leukocyte trafficking, for treating

creates such as rheumatoid arthritis and multiple sclerosis,

atherogenesis and atherosclerosis, and for inhibiting restenosis.

C are useful in therapy or diagnosis, and in the manufacture of a

cuedicament for treating CCR-2 mediated disease. They are also useful for

treating allersy, anaphylaxis, malignancy, chronic and acute

inflammation, histamine and IgE- mediated allersic reaction, shock,

ctreating allersy, anaphylaxis, malignancy, chronic and acute

creating allersy, anaphylaxis, malignancy chronic and acute

inflammation, histamine and IgE- mediated allersic reaction, shock,

creating allersy, acquired immune deficiency syndrome (AIDS), restenosis

associated with vascular intervention, including angloplasty and/or stent

continued a mammal Humanised antibodies are also useful for

inhibiting an ammal Humanised antibodies are also useful for

inhibiting and acute the langer of the continued and acute the continued and acute the continued and incompanies are also useful for the langer of the continued and c
 0;
 inhibiting narrowing of the lumen of a vessel in a mammal, and inhibiting neofittinal hyperplasia of a vessel in a mammal, preferably associated with vascular intervention. The present sequence is human kappa light chain variable (VK) region, H66
 Humanized immunoglobulin for treating a CC-chemokine receptor 2-mediated disorder in a patient, comprises a binding specificity for CCR2, and a non-human antigen binding region and human immunoglobulin.
 Gaps
 O'keefe
 ..
0
55. .61
/label= CDR2
/note= "Complementarity determining region 2"
 note= "Complementarity determining region 3"
 100.0%; Score 33; DB 4; Length 112; larity 100.0%; Pred. No. 15; Conservative 0; Mismatches 0; Indels
 O'brien S,
 Jones ST,
 Disclosure; Page 159-160; 183pp; English.
 Newman W,
 02-FEB-2001; 2001WO-US003537.
 03-FEB-2000; 2000US-00497625,
 (MILL-) MILLENNIUM PHARM INC
 ບັ
 Horvath
 WPI; 2001-488888/53.
 Query Match
Best Local Similarity
Matches 7; Conserv
 1 FTLEISR
 Sequence 112 AA;
 WO200157226-A1
 09-AUG-2001
 Larosa GJ,
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; 0

Gaps

; 0

Indels

0;

Mismatches

. 0

7; Conservative

Sest Local Similarity

Matches

Frieisk 81

FTLEISR 7

Н 75

ò g Human; humanised antibody; CC-chemokine receptor 2; CCR2; nephrotropic;

Human kappa light chain variable (VK) region, H66.

(first entry)

16-0CT-2001

XXEXEXX XXEXEX

AAE06992;

AAE06992 standard; protein; 112 AA.

**AAE06992** 

82

FTLEISR

16

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New catalytic antibodies able to decompose cocaine, single-chain analogues - used to treat cocaine overdose and addiction, required in far smaller doses than antibodies that antagonise cocaine by simply binding.
 AAW39801-05 represent the amino acid sequences of the variable domain of the Kappa light chain of catalytic antibodies which are able to degrade occaine. A series of cocaine transition state analogues (FSAs) were prepared and used to immunise mice for production of hybridomas. Catalytic antibodies were identified by their capacity to release 3H-benzolic acid from 3H-phenyl cocaine. The 12H antibody (AAW39808 represents the heavy chain) was identified using TSA2, and has a per minute Kcat of 0.016. The antibodies reduce the concentration of cocaine They are also used particularly for the treatment of an overdose. They are also used for treating addiction (by reducing the in vivo concentration that can be achieved)
 Variable domain; lambda light chain; catalytic antibody; degradation; cocaine; cocaine transition state analogue; TSA; benzoic acid; phenyl cocaine; immunogenic conjugate; reduction; cocaine; treatment; overdose; addiction
 Gaps
 Variable domain of the Kappa light chain of catalytic antibody 12H1.
 0;
 100.0%; Score 33; DB 2; Length 113; 100.0%; Pred. No. 15; 0; Mismatches 0; Indels
 Light chain of the catalytic antibody 6A12.
 AA.
 AAW39803 standard; protein; 113 AA
 Claim 18; Page 73; 147pp; English.
 AAW39886 standard; protein; 113
 (UYCO) UNIV COLUMBIA NEW YORK,
 96US-00672345.
 97WO-US010965.
 (first entry)
 (first entry)
 Query Match
Best Local Similarity 100.
Matches 7; Conservative
 WPI; 1998-077166/07.
 82
 7
 1 FTLEISR
 76 FTLEISR
 P-PSDB; AAV09802
 Sequence 113 AA;
 WO9749800-A1.
 25-JUN-1997;
 25-JUN-1996;
 16-JUN-1998
 18-JUN-1998
 31-DEC-1997
 Landry DW;
 AAW39886;
 AAW39803;
 Mus sp.
 RESULT 10
 AAW39886
RESULT 9
AAW39803
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The present sequence represents the light chain of a catalytic antibody which is capable of degrading cocaine. A series of cocaine transition state analogues (TSAs) were prepared and used to immunise mice for production of hybridomas. Catalytic antibodies were identified by their capacity to release 3H-benzoic acid from 3H-phenyl cocaine. The partibodies reduce the concentration of cocaine in a subject, and are used particularly for the treatment of an overdose. They are also used for treating addiction (by reducing the in vivo concentration that can be
 New catalytic antibodies able to decompose cocaine, single-chain analogues - used to treat cocaine overdose and addiction, required in far smaller doses than antibodies that antagonise cocaine by simply binding.
 Variable domain; lambda light chain; catalytic antibody; degradation; cocaine transition state analogue; TSA; benzoic acid; phenyl cocaine; immunogenic conjugate; reduction; cocaine; treatment; overdose; addiction.
 Variable domain; lambda light chain; catalytic antibody; degradation; cocaine; cocaine transition state analogue; TSA; benzoic acid; phenyl cocaine; immunogenic conjugate; reduction; cocaine; treatment;
 Gaps
 Variable domain of the Kappa light chain of catalytic antibody 6A12.
 0;
 100.0%; Score 33; DB 2; Length 113; 100.0%; Pred. No. 15; ive 0; Mismatches 0; Indels
 Disclosure; Fig 19; 147pp; English.
 AAW39802 standard; protein; 113 AA.
 COLUMBIA NEW YORK.
 97WO-US010965.
 97WO-US010965.
 96US-00672345.
 (first entry)
 Conservative
 WPI; 1998-077166/07.
N-PSDB; AAV09793.
 overdose, addiction
 FTLEISR 82
 7
 Local Similarity
les 7; Conserv
 Sequence 113 AA;
 (UYCO) UNIV
 16-JUN-1998
 25-JUN-1997;
 25-JUN-1997;
 WO9749800-A1
 25-JUN-1996;
 WO9749800-A1
 31-DEC-1997.
 31-DEC-1997
 Landry DW;
 AAW39802;
 н
 92
 Query Match
Best Local S
 achieved
 Mus sp.
 Matches
 Mus
 RESULT 11
 AAW39802
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Claim 12; Page 71-72; 147pp; English.
 WPI; 1998-077166/07.
N-PSDB; AAV09789.
 FTLEISR 82
 overdose; addiction
 1 FTLEISR 7
 Sequence 113 AA;
 WO9749800-A1.
 25-JUN-1997;
 (DYCO) UNIV
 25-JUN-1996;
 16-JUN-1998
 Landry DW;
 AAW39882;
 92
 Wus sp
 RESULT 13
 g
 0
 New catalytic antibodies able to decompose cocaine, single-chain analogues - used to treat cocaine overdose and addiction, required in far smaller doses than antibodies that antagonise cocaine by simply binding.
 AAW39801-05 represent the amino acid sequences of the variable domain of the Kappa light chain of catalytic antibodies which are able to degrade cocaine. A series of cocaine transition state analogues (TSAs) were prepared and used to immunise mice for production of hybridomas. Catalytic antibodies were identified by their capacity to release 3H-benzoic acid from 3H-phenyl cocaine. The AAL2 antibody (AAW39807 represents the heavy chain) was identified using TSA1, which is an immunogenic conjugate of a phosphate monoester transition state analogue. Antibody (AAL2 has a per minute Kac of 0.072. The antibodies reduce the concentration of cocaine in a subject, and are used particularly for the treatment of an overdose. They are also used for treating addiction (by reducing the in vivo concentration that can be achieved)
 New catalytic antibodies able to decompose cocaine, single-chain analogues - used to treat cocaine overdose and addiction, required in far smaller doses than antibodies that antagonise cocaine by simply binding.
 Variable domain; lambda light chain; catalytic antibody; degradation; cocaine; cocaine transition state analogue; TSA; benzoic acid; phenyl cocaine; immunogenic conjugate; reduction; cocaine; treatment; overdose; addiction.
 Gaps
 Variable domain of the Kappa light chain of catalytic antibody 3B9.
 ;
0
 100.0%; Score 33; DB 2; Length 113; 100.0%; Pred. No. 15;
 0; Indels
 0; Mismatches
 AAW39801 standard; protein; 113 AA.
 Claim 14; Page 72; 147pp; English.
 (UYCO) UNIV COLUMBIA NEW YORK
 (UYCO) UNIV COLUMBIA NEW YORK,
 96US-00672345,
 97WO-US010965.
 96US-00672345.
 (first entry)
 Local Similarity 100.
 WPI; 1998-077166/07.
P-PSDB; AAV09791.
 WPI; 1998-077166/07
 82
 7
 FTLEISR
 1 FTLEISR
 Sequence 113 AA;
25-JUN-1996;
 WO9749800-A1.
 25-JUN-1997;
 25-JUN-1996;
 16-JUN-1998
 31-DEC-1997,
 Landry DW;
 Landry DW;
 Query Match
 92
 AAW39801;
 Mus sp.
 Matches
 RESULT 12
 AAW39801
QQ
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ö
 The present sequence represents the light chain of a catalytic antibody which is capable of degrading cocaine. A series of cocaine transition state analogues (TSAs) were prepared and used to immunise mice for production of hybridomas. Catalytic antibodies were identified by their capacity to release 3H-benzoic acid from 3H-phenyl cocaine. The matibodies reduce the concentration of cocaine in a subject, and are used particularly for the treatment of an overdose. They are also used for treating addiction (by reducing the in vivo concentration that can be
AAW39801-05 represent the amino acid sequences of the variable domain of the Kappa light chain of catalytic antibodies which are able to degrade cocaine. A series of cocaine transition state analogues (TSAs) were prepared and used to immunise mice for production of hybridomas. Catalytic antibodies were identified by their capacity to release 3H-berzoic acid from 3H-phenyl cocaine. The 3B9 antibody (AAW39806 represents the heavy chain) was identified using TSA1, which is an immunogenic conjugate of a prosphate monoester transition state analogue. Antibody 3B9 has a per minute Kcat of 0.11. The antibodies reduce the concentration of cocaine in a subject, and are used particularly for the treatment of an overdose. They are also used for treating addiction (by reducing the in vivo concentration that can be achieved)
 New catalytic antibodies able to decompose cocaine, single-chain analogues - used to treat cocaine overdose and addiction, required in far smaller doses than antibodies that antagonise cocaine by simply binding.
 Variable domain; lambda light chain; catalytic antibody; degradation; cocaine; cocaine transition state analogue; TSA; benzoic acid; phenyl cocaine; immunogenic conjugate; reduction; cocaine; treatment;
 Gaps
 0
 100.0%; Score 33; DB 2; Length 113; 100.0%; Pred. No. 15; 0; Indels cive 0; Mismatches 0; Indels
 Light chain of the catalytic antibody 2A10.
 AA.
 Disclosure; Fig 21; 147pp; English.
 AAW39882 standard; protein; 113
 COLUMBIA NEW YORK.
 97WO-US010965.
 96US-00672345.
 (first entry)
 Conservative
 Query Match
Best Local Similarity
7; Conserve
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ADI22125 standard; protein; 113 AA.

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ADI22125
 ;
0
 AAW39801-05 represent the amino acid sequences of the variable domain of the Kappa light chain of catalytic antibodies which are able to degrade cocaine. A series of cocaine transition state analogues (FSAs) were prepared and used to immunise mice for production of hybridomas. Catalytic antibodies were identified by their capacity to release 3H-benzoic acid from 3H-phenyl cotaine. The 2Al0 antibody (AAW39809 represents the heavy chain) was identified using TSA1, which is an immunogenic conjugate of a phosphate monoester transition state analogue. Antibody 2Al0 has a per minute Koat of 0.011. The antibodies reduce the concentration of occaine in a subject, and are used particularly for the treatment of an overdose. They are also used for treating addiction (by reducing the in vivo concentration that can be achieved)
 New catalytic antibodies able to decompose cocaine, single-chain analogues - used to treat cocaine overdose and addiction, required in far smaller doses than antibodies that antagonise cocaine by simply binding.
 Variable domain, lambda light chain, catalytic antibody, degradation, cocaine, cocaine transition state analogue, TSA, benzoic acid, phenyl cocaine, immunogenic conjugate, reduction, cocaine, treatment,
 Gaps
 Variable domain of the Kappa light chain of catalytic antibody 2A10.
 ;
0
 Length 113;
 Indels
 0,
 100.0%; Score 33; DB 2;
100.0%; Pred. No. 15;
ive 0; Mismatches 0
 Claim 16; Page 73-74; 147pp; English.
 AAW39804 standard; protein; 113 AA.
 (UYCO) UNIV COLUMBIA NEW YORK.
 97WO-US010965.
 96US-00672345.
 (first entry)
 7; Conservative
 WPI; 1998-077166/07.
 overdose; addiction.
 82
 Query Match
Best Local Similarity
 1 FTLEISR
 76 FTLEISR
Sequence 113 AA;
 Sequence 113 AA;
 WO9749800-A1.
 25-JUN-1997;
 25-JUN-1996;
 16-JUN-1998
 31-DEC-1997.
 Landry DW;
 AAW39804;
 Mus sp.
 Matches
 RESULT 14
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The present invention describes a method (MI) for identifying an antipartel autoantibody (I) in a mammal. The autoantibody is detected by producing an antibody phage display library from B-lymphocytes obtained from the mammal, and screening the library to detect a phage that component, where the screening comporises panning the phage on intact platelets using competitive cellsurface panning. Also described: (I) an autoantibody identified by (MI); (2) an isolated muclaic acid encoding an anti-platelet autoantibody; (3) inhibiting (M2) blood clotting in a mammal having a thrombus or at risk of thrombus formation; (4) reversibly (M3) inhibiting blood clotting in a mammal having a thrombus or at risk of thrombus formation; (6) inhibiting (M3) bloddelet autoantibody with a platelet component; (7) treating (M3) platelet autoantibody with a mammal; (7) treating (M3) platelet autoantibody, (10) inhibiting (M3) platelet function; (II) inhibiting (M3) platelet function; (II) inhibiting (M3) platelet autoantibody, (II) inhibiting (M3) platelet autoantibody, (II) inhibiting platelet autoantibody, or its biologically active fragment that copying platelet autoantibody, or its biologically active fragment that copying the autoantibody, or its biologically active fragment that specifically binds with glycoprotein IIb/IIIa, where the autoantibody, or its spelled copying a mammal, and (IS) a kit for reversibly inhibiting platelet activation compresses an antigen and an interplatelet autoantibody, or its biologically active fragment that antipony the binding with glycoprotein IIb/IIIa, where the autoantibody, or its biologically active fragment that an antipony continument of the binding with glycoprotein IIb/IIIa, and an application and an interpatelet autoantibody, or its biologically active fragme
 anti-platelet autoantibody; autoantibody; blood clotting inhibition; thrombus; platelet adhesion inhibition; thrombotic thrombocytopenic purpure; platelet aggregation inhibition; idiopathic thrombocytopenic purpura; haemostatic; anticoagulant;
 Anti-platelet autoantibody related light chain amino acid L49 SEQ:88,
 Claim 12; SEQ ID NO 88; 232pp; English.
 03-JUL-2003; 2003WO-US021304.
 03-JUL-2002; 2002US-0394352P.
18-SEP-2002; 2002US-0411694P.
 (first entry)
 (UYPE-) UNIV PENNSYLVANIA.
 WPI; 2004-142998/14.
 thrombolytic; human
 N-PSDB; ADI22072
 WO2004005890-A2.
 Homo sapiens.
 22-APR-2004
 15-JAN-2004.
 Siegel DL;
 Synthetic
 ADI22125;
```

; 0

Gaps

..

Indels

100.0%; Score 33; DB 2; Length 113; 100.0%; Pred. No. 15; ive 0; Mismatches 0; Indels

Best Local Similarity 100. Matches 7; Conservative

Query Match

82

FTLEISR 7

Н 94

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CC clotting. The present sequence is used in the exemplification of the CC present invention.

XX

SQ Sequence 113 AA; Query Match 100.0%; Score 33; DB 8; Length 113; Best Local Similarity 100.0%; Pred. No. 15; Matches 7; Conservative 0; Mismatches 0; Indels 1 FTLEISR 7 ||||||| 76 FTLEISR 82 Š qq

0;

0; Gaps

Search completed: November 4, 2004, 00:47:41 Job time : 62.3333 secs

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US-10-327-598-401
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 Sequence 401, App
Sequence 32, Appl
Sequence 32, Appl
Sequence 32, Appl
Sequence 32, Appl
Sequence 48, Appl
Sequence 55, Appl
Sequence 57, Appl
Sequence 57, Appli
 (without alignments)
31.376 Million cell updates/sec
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 Description
 Published Applications AA:*

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2: /cgn2 6/ptodata/2/pubpaa/PCT NRW PUB.pep:*
3: /cgn2 6/ptodata/2/pubpaa/US06_PUBGOMB.pep:*
4: /cgn2 6/ptodata/2/pubpaa/US06_PUBGOMB.pep:*
5: /cgn2 6/ptodata/2/pubpaa/US08_PUBGOMB.pep:*
6: /cgn2 6/ptodata/2/pubpaa/US08_WRW PUB.pep:*
7: /cgn2 6/ptodata/2/pubpaa/US08_WRW PUB.pep:*
8: /cgn2 6/ptodata/2/pubpaa/US08_PUBGOMB.pep:*
9: /cgn2 6/ptodata/2/pubpaa/US08_PUBGOMB.pep:*
10: /cgn2 6/ptodata/2/pubpaa/US08_PUBGOMB.pep:*
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14: /cgn2 6/ptodata/2/pubpaa/US09_PUBCOMB.pep:*
15: /cgn2 6/ptodata/2/pubpaa/US09_PUBCOMB.pep:*
16: /cgn2 6/ptodata/2/pubpaa/US00_PUBCOMB.pep:*
16: /cgn2 6/ptodata/2/pubpaa/US10P_PUBCOMB.pep:*
17: /cgn2 6/ptodata/2/pubpaa/US10P_PUBCOMB.pep:*
18: /cgn2 6/ptodata/2/pubpaa/US10P_PUBCOMB.pep:*
19: /cgn2 6/ptodata/2/pubpaa/US10P_WRW_PUB.pep:*
19: /cgn2 6/ptodata/2/pubpaa/US10PWW_PUB.pep:*
GenCore version 5.1.6
(c) 1993 - 2004 Compugen Ltd.
 US-10-327-598-401

US-10-327-598-403

US-09-864-459-32

US-10-766-413-32

US-10-766-610-32

US-10-76-6-242-48

US-09-840-459-55

G US-10-766-713-55

G US-10-766-713-55

G US-10-73-55-56

US-10-73-55-56

US-10-73-55-56

US-10-73-55-56

US-10-73-55-56

US-10-73-55-56

US-10-73-55-56

US-10-73-55-56

US-10-73-56-610-55

US-09-940-7278-5
 Total number of hits satisfying chosen parameters:
 1370721 seqs, 324215800 residues
 Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
 - protein search, using sw model
 BLOSUM62
Gapop 10.0 , Gapext 0.5
 US-09-712-819D-12
33
1 FTLEISR 7
 seq length: 0 seq length: 2000000000
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 Query
Match Length
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 100.0
 Perfect score:
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 Score
 OM protein
 Minimum DB
Maximum DB
 Sequence:
 Database
 Run on:
 Result
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Sequence 4.01. Application US/10327598

Publication No. US20040181039A1

GENERAL INFORMATION:

APPLICANT: Guo, Honliang

APPLICANT: Guo, Honliang

APPLICANT: Apyrape, Ashok

TITLE OF INVENTION: Canine Immunoglobulin Variable Domains, Caninized Antibodies, and

TITLE OF INVENTION: For Making and Using Them

TITLE OF INVENTION: Expansion and Using Them

TITLE OF INVENTION: Expansion and Using Them

CURRENT APPLICATION NUMBER: US/10/327,598

CURRENT FILING DATE: 2002-12-20

PRIOR APPLICATION NUMBER: US 60/344,874

PRIOR FILING DATE: 2001-12-21

NUMBER OF SEQ ID NOS: 1139

SOFTWARE PATENTING PATE: 2001-12-21

SOFTWARE PATENTING DATE: 2001-12-21

LENGTH: 32
 119, App
12, Appl
14, Appl
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 Sequence 176, App
Sequence 176, App
Sequence 19, Appl
 Sequence 323, App
 Sequence 365,
Sequence 176,
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0
 100.0%; Score 33; DB 16; Length 32; 100.0%; Pred. No. 5.6; tive 0; Mismatches 0; Indels
US-09-940-727B-7

US-09-940-727B-100

US-09-940-727B-100

US-09-940-727B-100

US-09-940-727B-112

US-09-940-727B-112

US-10-398-037-8

US-09-940-727B-119

US-09-940-727B-119

US-10-335-394-12

US-10-335-394-12

US-10-335-394-12

US-10-38-122A-67597

US-10-282-122A-67597

US-10-282-122A-6799

US-10-282-122A-6799

US-10-282-122A-6799

US-10-282-122A-6799

US-09-563-222-80

US-09-563-222-80

US-09-563-222-80

US-09-563-222-80

US-09-563-222-80

US-09-563-222-80

US-10-663-244-49

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6 US-10-63-244-49

6 US-10-63-244-49

6 US-10-41-860-231

4 US-10-041-860-233

4 US-10-041-860-323

4 US-10-41-860-365

US-10-453-698-19
 ALIGNMENTS
 RESULT 2
US-10-327-598-403
; Sequence 403, Application US/10327598
 ; ORGANISM: canis familiaris; US-10-327-598-401
 Query Match
Best Local Similarity 100.
Matches 7; Conservative
 15 FTLEISR 21
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..
 Score 33; DB 16; Length 100; Pred. No. 18;
 100.0%; Score 33; DB 16; Length 100; 100.0%; Pred. No. 18;
 US-10-766-610-32, Application US/10766610

Sequence 31, Application US/10766610

Publication No. US20040132980A1

GENERAL INPORMATION:
APPLICANT: LARGEA, Gregory J.
APPLICANT: Newman, Malter
APPLICANT: O'Erien, Siobhan H.
APPLICANT: O'MERS: S. TARTAN
TITLE OF INVENTION: HUMANIZED ANTI-CCR2 ANTIBODIES AND
TITLE OF INVENTION: HUMBER: US/10/766,610
CURRENT FILING DATE: 2004-01-27

PRIOR PELICATION NUMBER: OS/460,459

PRIOR FILING DATE: 2001-04-23

PRIOR PELICATION NUMBER: OS/450,625

PRIOR PELICATION NUMBER: 09/450,625

PRIOR PELICATION NUMBER: 09/121,781

PRIOR PELICATION NUMBER: 09/121,781

PRIOR PELING DATE: 1998-07-22

PRIOR PELICATION NUMBER: 09/121,781

PRIOR PELING DATE: 1998-07-23

NUMBER OF SEQ ID NOS: 107

SOFTWARRE: FEALSEQ for Windows Version 3.0

SERVANT: 100
 Indels
 GENERAL INFORMATION:

APPLICANT: LARCASA, Gregory J.

APPLICANT: LARCASA, Gregory J.

APPLICANT: Newman, Walter

APPLICANT: Newman, Walter

APPLICANT: Ones, S. Tarran

APPLICANT: O'Reefe, Theresa

APPLICANT: O'Reefe, Theresa

TITLE OF INVENTION: HUMANIZED ANTI-CCR2 ANTIBODIES AND

TITLE OF INVENTION: HUMANIZED ANTI-CCR2 ANTIBODIES AND

TITLE OF INVENTION: METHODS OF USE THEREFOR

TITLE OF INVENTION: METHODS OF USE THEREFOR

TITLE OF INVENTION: METHODS OF USE THEREFOR

TITLE OF INVENTION: MUMBER: US/10/766,773

CURRENT FILING DATE: 2004-01-27

PRIOR FILING DATE: 1998-07-23

PRIOR FILING DATE: 1998-07-23

PRIOR FILING DATE: 1998-07-23

PRIOR FILING DATE: 1998-07-23

NUMBER OF SEQ ID NOS: 106

SOFTWARE: FastSEQ for Windows Version 3.0

SEQ ID NO 3.2
 0; Mismatches
Sequence 32, Application US/10766773 Publication No. US20040126851A1 GENERAL INFORMATION:
 100.0%;
 Query Match
Best Local Similarity 100.
Matches 7; Conservative
 , ORGANISM: Mus musculus
US-10-766-610-32
 TYPE: PRT
CORGANISM: Mus musculus
US-10-766-773-32
 76 FTLEISR 82
 Query Match
Best Local Similarity
 1 FTLEISR 7
 US-10-766-610-32
 à
 셤
 publication No. US20040181039A1

GENERAL INFORMATION:
APPLICANT: Krah, Eugene
APPLICANT: Guo, Honliang
APPLICANT: Guo, Honliang
APPLICANT: Ayappa, Ashok
APPLICANT: Ayappa, Ashok
TITLE OF INVENTION: Canine Immunoglobulin Variable Domains, Caninized Antibodies, and
TITLE OF INVENTION: Canine Immunoglobulin Variable Domains, Caninized Antibodies, and
TITLE OF INVENTION: 10-799-A
CURRENT APPLICATION NUMBER: US/10/327,598
CURRENT APPLICATION NUMBER: US 60/344,874
PRIOR PILING DATE: 2001-12-21
NUMBER OF SEQ ID NOS: 1139
SEQ ID NO 403
LENGTH: 32
LENGTH: 32
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 Query Match 100.0%; Score 33; DB 9; Length 100; Best Local Similarity 100.0%; Pred. No. 18; Matches 7; Conservative 0; Mismatches 0; Indels
 Length 32;
 0; Indels
 GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: LaGosa, Gregory J.
APPLICANT: Horvath, Christopher
APPLICANT: Horvath, Christopher
APPLICANT: Nomes, S. Tarran
APPLICANT: O'BRIGH, Siobhan H.
APPLICANT: O'BRIGH, Siobhan H.
APPLICANT: O'BRIGH, SIOBHAN H.
APPLICANT: O'BRIGH, BETHOS OF USE THEREFOR
TITLE OF INVENTION: HUMANIZED ANTI-CCR2 ANTIBODIES AND
TITLE OF INVENTION: METHODS OF USE THEREFOR
TITLE REFRENCE: 1855.1052-012
CURRENT APPLICATION NUMBER: US/09/840,459
CURRENT APPLICATION NUMBER: 09/497,625
PRIOR FILING DATE: 2001-02-02
PRIOR FILING DATE: 2000-02-03
PRIOR FILING DATE: 1999-07-22
PRIOR FILING DATE: 1999-07-22
PRIOR FILING DATE: 1999-07-22
PRIOR FILING DATE: 1998-07-23
NUMBER OF SEQ ID NOS: 107
SEQ ID NO 32
LENGTH: 100
 DB 16;
 100.0%; Score 33; DB 1
100.0%; Pred. No. 5.6;
rative 0; Mismatches
 RESULT 3
US-09-840-459-32
Sequence 32, Application US/09840459
; Patent No. US20020150576A1
 , ORGANISM: canis familiaris; US-10-327-598-403
 Query Match
Best Local Similarity 100.
 TYPE: PRT ORGANISM: Mus musculus
 76 FTLEISR 82
 15 FTLEISR 21
 1 FTLEISR 7
 1 FTLEISR 7
 US-10-766-773-32
 US-09-840-459-32
 RESULT 4
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75 FTLEISR 81

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Gaps

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Indels

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Mismatches

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7; Conservative

Matches

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100.0%; Score 33; DB 9; Length 112; 100.0%; Pred. No. 20;
 | APPLICANT: LANCHWAILOUN |
| APPLICANT: LANCHWAILOUN |
| APPLICANT: Horvath, Christopher |
| APPLICANT: Newman, Walter |
| APPLICANT: Newman, Walter |
| APPLICANT: O'Nes, S. Taxran |
| APPLICANT: O'Nesfe, Theresa |
| TITLE OF INVENTION: HUMANIZED ANTI-CCR2 ANTIBODIES AND |
| TITLE OF INVENTION: HUMANIZED ANTI-CCR2 ANTIBODIES AND |
| TITLE OF INVENTION: HUMANIZED ANTI-CCR2 ANTIBODIES AND |
| TITLE OF INVENTION: HUMANIZED ANTI-CCR2 ANTIBODIES AND |
| TITLE OF INVENTION: METHODS OF USE THEREFOR |
| TITLE OF INVENTION NUMBER: US/09/840,459 |
| CURRENT FILING DATE: 2001-02-02 |
| PRIOR APPLICATION NUMBER: 09/497,625 |
| PRIOR FILING DATE: 1999-07-22 |
| PRIOR FILING DATE: 1999-07-22 |
| PRIOR FILING DATE: 1998-07-23 |
| PRIOR FILING DATE: 1998-07-23 |
| PRIOR FILING DATE: 1998-07-23 |
| NUMBER OF SEQ ID NOS: 107 |
| SEQ ID NO 55 |
| LANCHING DATE: LANCH WINDOW VERSION 3.0 |
| SEQ ID NO 55 |
| LANCH HILL AND WINDOW WERE |
| LANCH HILL AND WINDOW WENDER |
| LANCH HILL AND WINDOW WE
 APPLICANT: Latockanica, a APPLICANT: Latockanica, a APPLICANT: Latockanica, a APPLICANT: Latockanica, a APPLICANT: Newman, Walter APPLICANT: Newman, Walter APPLICANT: Ornes, S. Tarran a APPLICANT: Ornes, S. Tarran a APPLICANT: O'Keefe, Theresa TITLE OF INVENTION: HUMANIZED ANTI-CCR2 ANTIBODIES AND TITLE OF INVENTION: HUMANIZED ANTI-CCR2 ANTIBODIES AND TITLE OF INVENTION: METHODS OF USE THEREFOR TITLE OF INVENTION: METHODS OF USE THEREFOR CURRENT PELLORATION NUMBER: US/10/766,773
CURRENT APPLICATION NUMBER: 09/497,625
PRIOR FILING DATE: 1090-07-23
PRIOR FILING DATE: 1999-07-22
PRIOR APPLICATION NUMBER: 09/121,781
PRIOR FILING DATE: 1998-07-23
PRIOR APPLICATION NUMBER: 09/121,781
PRIOR PRIOR PRIOR DATE: 1998-07-23
PRIOR PRIOR DATE: 1998-07-23
PRIOR PRIOR PRIOR DATE: 1998-07-23
PRIOR PRIOR PRIOR DATE: 1998-07-23
PRIOR PRIOR PRIOR DATE: 1998-07-23
PRIOR PRIOR PRIOR DATE: 1998-07-23
 0; Mismatches
 Sequence 55, Application US/09840459 Patent No. US20020150576A1
 S-10-766-773-55
Sequence 55, Application US/10766773
Publication No. US20040126851A1
 Query Match 100.
Best Local Similarity 100.
Matches 7; Conservative
 ORGANISM: Homo sapiens
US-09-840-459-55
) ORGANISM: Homo sapiens
US-10-766-773-55
 FTLEISR 82
 1 FTLEISR 7
 US-09-840-459-55
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 US-10-466-242-48

Sequence 48, Application US/10466242

Publication No. US20040208887A1

GENERAL INFORMATION:
APPLICANT: Drakenberg, Katarina
APPLICANT: Persson, Mate
TILLE REFERENCE: 0380-P03246US00
CURRENT APPLICATION NUMBER: US/10/466,242
CURRENT FILING DATE: 2004-01-16
FRIOR PHILOGATICATION NUMBER: PCT/SE02/00044

PRIOR FILING DATE: 2002-01-14
NUMBER OF SEQ ID NOS: 56
SOFTWARE: PatentIn version 3.1
SEQ ID NO 48
LENGTH: 111
 Gaps
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 100.0%; Score 33; DB 16; Length 100; 100.0%; Pred. No. 18;
 DB 17; Length 111;
 **Sequence 32, Application US/10733563
; Bublication No. US20040151721A1
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa
; APPLICANT: O'Keefe, Theresa
; APPLICANT: O'Keefe, Theresa
; APPLICANT: Ponath, Paul
; TITLE OF INVENTION: HUMANIZED ANTI-CCR2 ANTIBODIES AND
; TITLE OF INVENTION: MUMBER: US/10/733,563
; CURRENT APPLICATION NUMBER: US 10/272,899
; PRIOR APPLICATION NUMBER: US 60/392,364
; PRIOR FILING DATE: 2002-06-26
; PRIOR APPLICATION NUMBER: US 60/350,166
; PRIOR FILING DATE: 2001-10-19
; SOFTWARE: FASTERE FOR Windows Version 4.0
; SEQ ID NO 32
; LENGTH: 100
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 100.0%; Score 33; DB 100.0%; Pred. No. 20; tive 0; Mismatches
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 ; NAME/KEY: PEPTIDE
; LOCATION: (1)...(111)
; CTHER INFORMATION: Clone 2b:5 VK
US-10-466-242-48
 Query Match
Best Local Similarity 100.
Matches 7; Conservative
 Query Match
Best Local Similarity 100.
Matches 7; Conservative
 ; TYPE: PRT
; ORGANISM: Mus musculus
US-10-733-563-32
 ORGANISM: Homo sapiens
 76 FTLEISR 82
 FTLEISR 82
1 FTLEISR 7
 FTLEISR 7
 US-10-733-563-32
 TYPE: PRT
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 100.0%; Score 33; DB 10; Length 113;
 100.0%; Score 33; DB 10; Length 113; 100.0%; Pred. No. 20; ive 0; Mismatches 0; Indels
 DB 16; Length 112; 20;
 0; Indels
 Sequence 6, Application US/09940727B

Sequence 6, Application US/09940727B

Bublication No. US20030077793A1

GENERAL INFORMATION:

APPLICANT: Landry, Donald W

TITLE OF INFURITON: ANTI-CCCAINE CATALYTIC ANTIBODY

FILE REFERENCE: 0575/51400-B

CURRENT APPLICATION NUMBER: US/09/940,727B

CURRENT FILING DATE: 2002-09-04

PRIOR FILING DATE: 1998-12-28

PRIOR FILING DATE: 1998-12-28

PRIOR FILING DATE: 1997-06-25

PRIOR FILING DATE: 1997-06-25

PRIOR FILING DATE: 1997-06-25

PRIOR FILING DATE: 1997-06-25

PRIOR PLING DATE: 1997-06-25

NUMBER OF SEQ ID NOS: 121

SOFTWARE: PATENTIN VETSION 3.1

SEQ ID NO 6.
 APPLICANT: Landary, Donald W
TITLE OF INVENTION: ANTI-COCAINE CATALYTIC ANTIBODY
TITLE OF INVENTION: ANTI-COCAINE CATALYTIC ANTIBODY
FILE REPERENCE: 0575/51400-B
CURRENT APPLICATION NUMBER: 08/09/940,727B
CURRENT PILING DATE: 2002-09-04
PRIOR APPLICATION NUMBER: 09/214,095
PRIOR APPLICATION NUMBER: PCT/US97/10965
PRIOR FILING DATE: 1996-12-28
PRIOR FILING DATE: 1996-6-25
PRIOR FILING DATE: 1996-06-25
NUMBER: OF SEQ ID NOS: 121
SEQ ID NO 5: 121
 0; Mismatches
 100.0%; Score 33;
100.0%; Pred. No.
 ; Sequence 5, Application US/09940727B; Publication No. US20030077793A1
 Query Match
Best Local Similarity 100.v
Local 7; Conservative
 Query Match 100.
Best Local Similarity 100.
Matches 7; Conservative
; SEQ ID NO 55; LENGTH: 112; TYPE: PRT; TYPE: PRT ; ORGANISM: Homo sapiens US-10-733-563-55
 76 FTLEISR 82
 76 FILEISR 82
 1 FTLEISR 7
 1 FTLEISR 7
 GENERAL INFORMATION:
 ORGANISM: mouse
 .: 113
: PRT
 US-09-940-727B-6
 US-09-940-727B-5
 US-09-940-727B-6
 US-09-940-727B-5
 LENGTH: 113
 ORGANISM:
 Query Match
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 100.0%; Score 33; DB 16; Length 112; 100.0%; Pred. No. 20;
 100.0%; Score 33; DB 16; Length 112; 100.0%; Pred. No. 20; cive 0; Mismatches 0; Indels
 RESULT 11
US-10-733-563-55
; Sequence 55, Application US/10733563
; Publication No. US20040151721A1
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa
; APPLICANT: O'Keefe, Theresa
; APPLICANT: Ponath, Paul
; TITLE OF INVENTION: HUMANIZED ANTI-CCR2 ANTIBODIES AND
TITLE OF INVENTION: METHODS OF USE THEREOF
; FILE RPERENCE: 10448-213001
; CURRENT APPLICATION NUMBER: US/10/733,563
CURRENT APPLICATION NUMBER: US 60/392,364
; PRIOR PILING DATE: 2002-10-17
; PRIOR PILING DATE: 2002-06-26
; PRIOR PILING DATE: 2002-06-26
; RIOR APPLICATION NUMBER: US 60/392,364
; RIOR APPLICATION NUMBER: US 60/392,364
; RIOR APPLICATION NUMBER: US 60/392,364
; RIOR PILING DATE: 2002-10-17
; NUMBER OF SEQ 1D NOS: 122
; SOPTWARE: FastSEQ for Windows Version 4.0
 Indels
 US-10-760-510-55

Sequence 55, Application US/10766610

Publication No. US20040132980A1

GENERAL INFORMATION:
APPLICANT: LARGASA, GTEGOTY J.
APPLICANT: Newman, Walter
APPLICANT: Newman, Walter
APPLICANT: O'Brien, Siobhan H.
APPLICANT: O'Brien, Siobhan H.
APPLICANT: O'Brien, Siobhan H.
APPLICANT: O'Refe, Theresa
TILE OF INVENTION: HUWANIZED OF USE THEREFOR
FILE REFERENCE: 1855.1052-029
FURRENT FILING DATE: 2004-01-27
PRIOR PILING DATE: 2001-04-23
PRIOR PELICATION NUMBER: POT/US01/03537
PRIOR PELICATION NUMBER: POT/US01/03537
PRIOR PELICATION NUMBER: POT/US01/03537
PRIOR PELICATION NUMBER: 09/497, 625
PRIOR PELICATION NUMBER: 09/121, 781
PRIOR PELING DATE: 1999-07-22
PRIOR PELING DATE: 1999-07-23
NUMBER OF SEQ ID NOS: 107
SEQ ID NO 55
LENGTH: 112
 0; Mismatches
 Query Match
Best Local Similarity luv.
7; Conservative
 7; Conservative
 ORGANISM: Homo sapiens
 FTLEISR 82
 76 FTLEISK 82
 1 FTLEISR 7
 Query Match
Best Local Similarity
 1 FTLEISR 7
 RESULT 10
US-10-766-610-55
 US-10-766-610-55
 92
 TYPE: PRT
 Matches
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Search completed: November 4, 2004, 01:13:29 Job time: 73.3333 secs
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 100.0%; Score 33; DB 10; Length 113; 100.0%; Pred. No. 20; ive 0; Mismatches 0; Indels (
 Query Match 100.0%; Score 33; DB 10; Length 113; Best Local Similarity 100.0%; Pred. No. 20; Matches 7; Conservative 0; Mismatches 0; Indels
 0; Indels
 Sequence 7, Application US/08940727B
Publication No. US20030077733A1
GENERAL INFORMATION:
APPLICAMT: Landry, Donald W
TITLE OF INVENTION: ANTI-COCAINE CATALYTIC ANTIBODY
FILE REPERBENCE: 0575/51400-B
CURRENT APPLICATION NUMBER: US/09/940,727B
CURRENT FILING DATE: 1998-12-28
PRIOR APPLICATION NUMBER: 09/214,095
PRIOR APPLICATION NUMBER: 09/214,095
PRIOR APPLICATION NUMBER: 09/214,095
PRIOR APPLICATION NUMBER: 09/214,345
PRIOR APPLICATION NUMBER: 09/6-06-25
PRIOR APPLICATION NUMBER: 09/6-06-25
NUMBER OF SEQ ID NOS: 121
SEQ TUMARE: PatentIn version 3.1
SEQ TUMARE: PatentIn version 3.1
 JUNE 1979-340-72.05-0

Sequence 8, Application US/09940727B

Publication No. US2003007793A1

GENERAL INPORMATION:

APPLICANT: Landry, Donald W

TITLE OF INVENTION: ANTI-COCAINE CATALYTIC ANTIBODY

FILE REPERENCE: 0575/51400-B

CURRENT APPLICATION NUMBER: US/09/940,77B

CURRENT FILING DATE: 2002-09-04

PRIOR FILING DATE: 1998-12-28

PRIOR FILING DATE: 1997-06-25

PRIOR APPLICATION NUMBER: 08/672,345

PRIOR APPLICATION NUMBER: 08/672,345

PRIOR APPLICATION NUMBER: 08/672,345

PRIOR FILING DATE: 1996-06-25

NUMBER OF SEQ ID NOS: 121

SOFTWARE: Patentin version 3.1
100.0%; Pred. No. 20; ative 0; Mismatches
Best Local Similarity 100.
Matches 7; Conservative
 Query Match
Best Local Similarity 100.
Matches 7; Conservative
 76 FTLEISR 82
 76 FTLEISR 82
 1 FTLEISR 7
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76 FTLEISR 82
 1 FTLEISR 7
 1 FTLEISR 7
 ; TYPE: PRT
; ORGANISM: mouse
US-09-940-727B-7
 ; TYPE: PRT
; ORGANISM: mouse
US-09-940-727B-8
 RESULT 14
US-09-940-727B-7
 US-09-940-727B-8
 SEQ ID NO 8
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Query

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Result
 4, 2004, 00:44:39; Search time 286.667 Seconds (without alignments) 27.056 Million cell updates/sec
 6730630
 GenCore version 5.1.6 (c) 1993 - 2004 Compugen Ltd.
 Total number of hits satisfying chosen parameters:
 6730630 seqs, 1107998698 residues
 Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
 OM protein - protein search, using sw model
 BLOSUM62
Gapop 10.0 , Gapext 0.5
 US-09-712-819D-12
33
1 FTLEISR 7
 Minimum DB seq length: 0
Maximum DB seq length: 2000000000
 Copyright
 November
 Title:
Perfect score:
 Scoring table:
 Database :
 Sequence:
 Searched:
 Run on:
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Description      | <br>                                      | Sequence 104,<br>Sequence 104, | Sequence 401 | Sequence 402<br>Sequence 104 | Sequence 104     | 83 Sequence 133 |              |             |             | σι          | o.          |              |                              |              |             |                            |             |                              |             |                            |             |             |             |             |             |             |             |             | 3-6 Sequence 6, Appli<br>43-5 Sequence 5, Appli |            | Peptide, A Method for Preventing                                                                                                                                                                                                                                                                                                                     |
|------------------|-------------------------------------------|--------------------------------|--------------|------------------------------|------------------|-----------------|--------------|-------------|-------------|-------------|-------------|--------------|------------------------------|--------------|-------------|----------------------------|-------------|------------------------------|-------------|----------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------------------------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ΠD               | 1 US-09-712-819-12<br>1 US-09-712-819D-12 | PCT-US04-202<br>PCT-US04-205   | US-10-327-5  | US-10-877-7                  | US-10-877-7      | US-09-791-5     | PCT-US01-035 | US-10-733-5 | US-10-766-6 | US-09-834-3 | US-60-197-8 | PCT-US01-035 | PCT-US03-395<br>PCT-US04-202 | PCT-US04-205 | US-10-766-6 | US-10-766-7<br>US-10-877-7 | US-10-877-7 | PCT-US03-213<br>PCT-US04-171 | US-08-672-3 | US-08-672-3<br>US-08-672-3 | US-08-672-3 | US-09-940-7 | US-09-940-7 | US-09-940-7 | US-09-940-7 | US-09-940-7 | US-09-940-7 | US-10-049-8 | US-07-868-98<br>PCT-US99-244                    | PALTGNMENT | ALLGNUENT  J.  Trie  Lrie  Pormation  E FLAVNIK  Drive  00 MB stora                                                                                                                                                                                                                                                                                  |
| Length DB        | 7 21                                      |                                | 00           | 1 m                          | 'nα              | N               |              | ı m         | m n         | 'n          | w w         | ) ref        |                              | <b>⊢</b> ∂   | 'n'n        | m m                        | , ñ,        |                              | Ä,          | ř                          | i ii i      | 7 6         | 2,2         | 20.0        | 7 6         | 7           | 2, 2        | 7 7         | пч                                              |            | S/09<br>Fre<br>Fre<br>Fib<br>Rose<br>Rose<br>Fib<br>Fib<br>Fib<br>SSC<br>ASC<br>ASC<br>ASC<br>ASC<br>ASC<br>ASC<br>ASC<br>ASC<br>ASC                                                                                                                                                                                                                 |
| Query<br>Match I | 100.0                                     | 100.0                          | 100.0        | 100.0                        | 100.0            | 100.0           | 100.0        | 100.0       | 100.0       | 100.0       | 100.0       | 100.0        | 100.0                        | 100.0        | 100.0       | 100.0                      | 100.0       | 100.0                        | 100.0       | 100.0                      | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       | 100.0                                           |            | ESULT 1 S-09-712-819-12 Sequence 12, Application US/( GENERAL INFORMATION: APPLICANT: Stevens, FARGON, Yahin Davis, Davis Raffert, Ros TITLE OF INVENTION: FF NUMBER OF SEQUENCES: 1 CORRESPONDENCE ADDRESS RADDRESSEE: CHERGY STREET: 20 N. WAC CITY: Chicago STATE: Illinois COUNTRY: United 8 ZIP: 60606 COMPUTER READABLE FORN MEDIUM TYPE: CD-1 |
| Score            | 333                                       | 33 G                           | 33           | 38.6                         | 2 CO             | 33              | ო ო<br>ო ო   | 38          | 333         | 33.0        | ო ო<br>ო ო  | 33           | 33 CF                        | 33           | . W         | n n                        |             | 333                          | 33          | <br><br><br>               | 8 6         | n (r        | . m         | e c         | 3 C         | 33          | 33          | 33          | 333                                             |            | 1<br>12-819-1<br>nce 12,<br>ERAL INF<br>APPLIC<br>TITLE (<br>CORRES)<br>S'S'S'S'S'S'S'S'S'S'S'S'S'S'S'S'S'S'S                                                                                                                                                                                                                                        |
| No.              | 101                                       | 4 4                            | יי ע         | 000                          | ω σ <sub>0</sub> | 10              | 111          | 113         | 14<br>15    | 16          | 17          | 119          | 20                           | 222          | 22.         | 25<br>26                   | 27          | 2 6                          | 30          | 31<br>32                   | 33          | 2 C.        | 38          | 37          | 0 0<br>0 m  | 40          | 41          | 43          | 44<br>45                                        |            | RESULT 1 US-09-712- ; Sequence ; GENERA ; F                                                                                                                                                                                                                                                                                                          |

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APPLICANT: FOLEX, IAN
APPLICANT: FOLEX, IAN
APPLICANT: Kang, Jaspal
APPLICANT: Kang, Chadwick T.
APPLICANT: King, Chadwick T.
APPLICANT: King, Chadwick T.
APPLICANT: King, Chadwick T.
APPLICANT: King, Chadwick T.
APPLICANT: Rive Colour Jane
TITLE OF INVENTION: MUTANTS OF EPIDERMAL GROWTH FACTOR RECEPTOR AND USES THEREOF
FILE REFERENCE: ABGENIX.087VPC
CURRENT APPLICATION NUMBER: DCT/USO4/20295
CURRENT FILING DATE: 2004-07-02
PRIOR PELING CALCATION NUMBER: US 60/483,145
PRIOR PELING DATE: 2003-11-26
PRIOR PELING DATE: 2003-11-26
PRIOR APPLICATION NUMBER: US 60/562,453
PRIOR PLING DATE: 2004-04-15
NUMBER OF SEQ ID NOS: 144
IENGTH: 32
IENGTH: 32
 0
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 Gaps
 Gaps
 ;
 0
 Length 32;
 Length 7;
 Indels
 Indels
 100.0%; Score 33; DB 21;
100.0%; Pred. No. 6.2e+06;
iive 0; Mismatches 0;
 Query Match

100.0%; Score 33; DB 1;

Best Local Similarity 100.0%; Pred. No. 8;

Matches 7; Conservative 0; Mismatches 0
 ; OTHER INFORMATION: Synthetic peptide sequence PCT-USO4-20295-104
 ;
TOPOLOGY: linear
;
SEQUENCE DESCRIPTION: SEQ ID NO: 12:
US-09-712-819D-12
 PCT-US04-20564-104
; Sequence 104, Application PC/TUS0420564
; GENERAL INFORMATION:
; APPLICANT: ABGENIX, INC.
; APPLICANT: Weber, Richard
 Sequence 104, Application PC/TUS0420295 GENERAL INFORMATION:
 Keyt, Bruce
Liu, Ying
Rathanaswami, Palani
TYPE: amino acid
STRANDEDNESS: Single
 TYPE: PRT
ORGANISM: Artificial Sequence
 Raya, Robert
Yang, Xiao Dong
Corvalan, Jose
 Query Match 100.
Best Local Similarity 100.
Matches 7; Conservative
 APPLICANT: ABGENIX, INC.
APPLICANT: Weber, Richard
APPLICANT: Feng, Xiao
 Foord, Orit
Green, Larry
 Gudas, Jean
 FTLEISR 21
 1 FTLEISR 7
 1 FTLEISR 7
 1 FTLEISR 7
 PCT-US04-20295-104
 APPLICANT:
 APPLICANT
 RESULT 4
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 ò
 DP
 0
 AFFLICANT.

Argon, Yair
Davis, David P.
Raffen, Rosemarie
TITLE OF INVENTION: Fibril-Blocking Peptide, A Method for Preventing
Fibril Formation
 Gaps
 Length 7;
 Indels
 Query Match
Best Local Similarity 100.0%; Pred. No. 6.2e+06;
Matches 7; Conservative 0; Mismatches 0;
 OPERATING SYSTEM: Microsoft Windows XP
 COMPUTER: PC
OPERATING SYSTEM: Microsoft Windows XP
SOFTWARE: Wordperfect
CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/712,819
PILING DATE: 13-Nov-2000
PRIOR APPLICATION NUMBER: U.S. 60/165,424
APPLICATION NUMBER: U.S. 60/165,424
ATTORNEY/AGENT INFORMATION:
NAME: Cherskov, Michael J.
REGISTRATION NUMBER: 33,664
TELECOMUNICATION INFORMATION:
TELECOMUNICATION INFORMATION:
TELECOMUNICATION INFORMATION:
TELEPHONE: (312) 621-1330
TELEPHONE: (312) 621-1330
 ATTOREEY/AGENT INFORMATION:
NAME: Cherskov, Michael J.
REGISTRATION NUMBER: 33,664
REGISTRATION NUMBER: 0003/00537
RELECOMMUNICATION INFORMATION:
TELECHONE: (312) 621-1330
 PAPLICATION NUMBER: US/09/712,819D
FILING DATE: 13-Nov-2000
PRIOR APPLICATION DATA:
FILING DATE: 1999-NOV-14
 STATE: Illinois
COUNTRY: United States
ZIP: 60606
COMPUTER READABLE FORM:
MEDIUM TYPE: CD-R, 700 MB storage
 TYPE: amino acid
STRANDENESS: Single
TOPOLGGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 12:
 CORRESPONDENCE ADDRESS:
ADDRESSEE: CHERSKOV & FLAYNIK
STREET: 20 N. Wacker Drive
 Sequence 12, Application US/09712819D GENERAL INFORMATION:
APPLICANT: Stevens, Fred J.
 TELEFAX: (312) 621-0088
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
 SOFTWARE: Wordperfect CURRENT APPLICATION DATA:
 LENGIH: 7 amino acids
 LENGIH: 7 amino acids
 INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
 CITY: Chicago
 COMPUTER: PC
 FTLEISR 7
 US-09-712-819D-12
 US-09-712-819-12
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us-09-712-819d-12.open.rapm

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US-10-327-598-403

US-10-327-598-403

Sequence 403, Application US/10327598

GENERAL INFORMATION:
APPLICANT: Krah, Eugene
APPLICANT: Alyapa, Ashok
APPLICANT: Alyapa, Ashok
APPLICANT: Gow, Honliang
APPLICANT: Alyapa, Ashok
APPLICANT: Alyapa, Ashok
APPLICANT: Alyapa, Ashok
APPLICANT: Barenel Robert
TITLE OF INVENTION: Conine Immunoglobulin Variable Domains, Caninized Antibodies, an
FILE REFERENCE: 01-799-A
CURRENT APPLICATION NUMBER: US/10/327,598
CURRENT FILING DATE: 2001-12-21
FRIOR FILING DATE: 2001-12-21
SOFTWARE: Patentin version 3.0
SEQ ID NO 403
LENGTH: 32
MANGER: APPLICATION NUMBER: US/10/327,598
SEQ ID NO 403
LENGTH: 32
 APPLICANT: Kang, Jaspal.

APPLICANT: King, Chadwick T.

APPLICANT: Su, Qiaojuan Jane

TITLE OF INVENTION: WITNING OF EPIDERWAL GROWTH FACTOR RECEPTOR AND USES THEREOF

TITLE OF INVENTION: WITNING OF EPIDERWAL GROWTH FACTOR RECEPTOR AND USES THEREOF

TITLE OF INVENTION: WITNING OF EPIDERWAL GROWTH FACTOR RECEPTOR AND USES THEREOF

FILE REPERENCE: 2004-06-25

PRIOR PILING DATE: 2003-06-27

PRIOR PILING DATE: 2003-11-26

PRIOR APPLICATION NUMBER: 60/525,570

PRIOR APPLICATION NUMBER: 60/525,570

PRIOR APPLICATION NUMBER: 60/525,453

PRIOR PILING DATE: 2004-04-15

NUMBER OF SEQ ID NOS: 144

SOFTWARE: FastSEQ for Windows Version 4.0

LENGTH: 32
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 Gaps
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 100.0%; Score 33; DB 29; Length 32; 100.0%; Pred. No. 8; 0; Indels tive 0; Mismatches 0; Indels
 Sequence 104, Application US/10877773 GENERAL INFORMATION:
 Rathanaswami, Palani
 ; ORGANISM: canis familiaris; US-10-327-598-403
 Raya, Robert
Yang, Xiao Dong
Corvalan, Jose
 Query Match
Best Local Similarity 100.
Matches 7; Conservative
 APPLICANT: Weber, Richard
 Feng, Xiao
Foord, Orit
Green, Larry
Gudas, Jean
 Foltz, Ian
Jia, Xiao-Chi
 Keyt, Bruce
Liu, Ying
 FTLEISR 21
 15 FTLEISR 21
 1 FTLEISR 7
 US-10-877-773-104
 15
 TYPE: PRT
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 Sequence 401, Application US/10327598
; Sequence 401, Application US/10327598
; Generate 101, Application US/10327598
; Generate 401, Application US/10327598
; APPLICANT: Krah, Eugene
APPLICANT: Alyappa, Ashok
; APPLICANT: Lawton, Robert
TITLE OF INVENTION: For Making and Using Them
FILE OF INVENTION: for Making and Using Them
FILE REFERENCE: 01-799-A
CURRENT APPLICATION NUMBER: US/10/327,598
CURRENT FILING DATE: 2002-12-20
FRIOR FILING DATE: 2001-12-21
NUMBER OF SEQ ID NOS: 1139
; SQ ID NO 401
LENGTH: 32
LENGTH: 32
 APPLICANT: King, Chadwick T.
APPLICANT: King, Chadwick T.
APPLICANT: King, Chadwick T.
APPLICANT: King, Scott L.
APPLICANT: King, Scott L.
APPLICANT: King, Jaspal
TITLE OF INVENTION: ANTIBODIES DIRECTED TO THE DELETION
TITLE OF INVENTION: MUTANTS OF EPIDERMAL GROWTH FACTOR RECEPTOR AND USES THEREOF
TITLE DEPERENCE: ADGENIX. 087VPC2
CURRENT APPLICATION NUMBER: PCT/US04/20564
CURRENT APPLICATION NUMBER: DC 60/483,145
PRIOR APPLICATION NUMBER: US 60/525,570
PRIOR APPLICATION NUMBER: US 60/562,453
PRIOR APPLICATION NUMBER: US 60/562,453
PRIOR PILING DATE: 2004-0415
NUMBER OF SEQ ID NOS: 144
SOFTWARE: FastSEQ for Windows Version 4.0
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100.0%; Score 33; DB 29; Length 32;
Best Local Similarity 100.0%; Pred. No. 8;
Matches 7; Conservative 0; Mismatches 0; Indels
 100.0%; Score 33; DB 1; Length 32; 100.0%; Pred. No. 8; tive 0; Mismatches 0; Indels
 ; OTHER INFORMATION: Synthetic peptide sequence PCT-US04-20564-104
 Keyt, Bruce
Liu, Ying
Rathanaswami, Palani
 TYPE: PRT
ORGANISM: Artificial Sequence
 TYPE: PRT ORGANISM: canis familiaris;
 Yang, Xiao Dong
Corvalan, Jose
 Conservative
 Foltz, Ian
Jia, Xiao-Chi
 Raya, Robert
 Jean
 Query Match
Best Local Similarity
Matches 7; Conserv
 15 FTLEISR 21
 1 FTLEISR 7
 US-10-327-598-401
 US-10-327-598-401
 APPLICANT
 qq
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Query Match
Best Local Similarity 100.
 Query Match
Best Local Similarity 100.
Matches 7; Conservative
 ; TYPE: PRT
; ORGANISM: Mus musculus
US-09-791-537-133183
 TYPE: PRT
CORGANISM: Mus musculus
US-09-791-537-56094
 51 Frieisk 57
 45 FTLEISR 51
 1 FTLEISR 7
 1 FILEISR 7
 US-09-791-537-133183
 PCT-US01-03537-32
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 a
 APPLICANT: Karg, Jaspal
APPLICANT: Karg, Chadwick T.
APPLICANT: King, Chadwick T.
APPLICANT: Su, Qiaojuan Jane
TITLE OF INVENTION: MUTANTS OF EPIDERWAL GROWTH FACTOR RECEPTOR AND USES THEREOF
FILE REFERENCE: ABGENIX.08722
CURRENT APPLICATION NUMBER: US/10/877,774
CURRENT FILING DATE: 2003-06-27
FRIOR FILING DATE: 2003-11-26
PRIOR FILING DATE: 2003-11-26
PRIOR FILING DATE: 2004-04-15
NUMBER OF SEQ ID NOS: 144
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 Length 32;
 0; Indels
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100.0%; Pred. No. 8;
7ative 0; Mismatches 0;
) OTHER INFORMATION: Synthetic peptide sequence US-10-877-774-104
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; OTHER INFORMATION: Synthetic peptide sequence US-10-877-773-104
 0; Mismatches
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8-09-79-1-537-56094
9 Sequence 56094, Application US/09791537
9 GENERAL INFORMATION:
1 APPLICANT: Belonomia, Inc.
1 APPLICANT: Debe, Derek
1 APPLICANT: Danzer, Joseph
 Sequence 104, Application US/10877774 GENERAL INFORMATION:
 Rathanaswami, Palani
Raya, Robert
Yang, Xiao Dong
 TYPE: PRT
ORGANISM: Artificial Sequence
TYPE: PRT ORGANISM: Artificial Sequence
 Corvalan, Jose
Foltz, Ian
Jia, Xiao-Chi
 Query Match
Best Local Similarity 100.
Matches 7; Conservative
 Query Match
Best Local Similarity 100.
Matches 7; Conservative
 APPLICANT: Weber, Richard
APPLICANT: Feng, Xiao
APPLICANT: Foord, Orit
APPLICANT: Green, Larry
APPLICANT: Gudas, Jean
 Keyt, Bruce
Liu, Ying
 FTLEISR 21
 15 FTLEISR 21
 1 FTLEISR 7
 US-10-877-774-104
 APPLICANT:
APPLICANT:
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TITLE OF INVENTION: THREE DIMENSIONAL STRUCTURES OF PROTEIN FAMILIES AND FAMILY MEMBITITE OF INVENTION: METHODS OF USE THEREOF
FILE REFERENCE: 261/210
CURRENT APPLICATION NUMBER: US/09/791,537
CURRENT PILING DATE: 2001-02-22
NUMBER OF SEQ ID NOS: 153055
SOFTWARE: Patentin version 3.0
SEQ ID NO 56094
 APPLICANT: Debe, Derek
APPLICANT: Danzer, Joseph
TITLE OF INVENTION: THERE DIMENSIONAL STRUCTURES OF PROTEIN FAMILIES AND FAMILY MEMB
TITLE OF INVENTION: METHODS OF USE THEREOF
FILE REFERENCE: 261/210
CURRENT APPLICATION NUMBER: US/09/791,537
CURRENT FILING DATE: 2001-02-22
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 100.0%; Score 33; DB 22; Length 74; 100.0%; Pred. No. 21; 0; Indels iive 0; Mismatches 0; Indels
 100.0%; Score 33; DB 22; Length 75; 100.0%; Pred. No. 21;
 Sequence 32, Application PC/TUS0103537

Sequence 32, Application PC/TUS0103537

GENERAL INFORMATION:
APPLICANT: Millennium Pharmaceuticals, Inc.
APPLICANT: LaRosa, Gregory J.
APPLICANT: Horvath, Christopher
APPLICANT: Horvath, Christopher
APPLICANT: Naman, Walter
APPLICANT: O'Brien, Siobhan H.
APPLICANT: 1855.1052005
CURRENT FILING DATE: 2000-02-03
PRIOR FILING DATE: 1999-07-22
PRIOR FILING DATE: 1999-07-23

PRIOR FILING DATE: 1998-07-23
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 0; Mismatches
 Sequence 133183, Application US/09791537
GENERAL INFORMATION:
APPLICANT: Bionomix, Inc.
 NUMBER OF SEQ ID NOS: 153055
SOFTWARE: Patentin version 3.0
SEQ ID NO 133183
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Gaps
 0
 100.0%; Score 33; DB 33; Length 100; 100.0%; Pred. No. 29;
 APPLICANT: Largea, Gregory J.
APPLICANT: Largea, Gregory J.
APPLICANT: Largea, Gregory J.
APPLICANT: Newman, Walter
APPLICANT: O'Brien, Siobhan H.
APPLICANT: O'Reie, Theresa
TITLE OF INVENTION: HUMANIZED ANTI-CCR2 ANTIBODIES AND
TITLE OF INVENTION: HUMANIZED ANTI-CCR2 ANTIBODIES AND
TITLE OF INVENTION: HUMANIZED ANTI-CCR2 ANTIBODIES AND
TITLE OF INVENTION: METHODS OF USE THEREFOR
TITLE OF INVENTION: METHODS OF USE THEREFOR
CURRENT APPLICATION NUMBER: US/10/766,610
CURRENT APPLICATION NUMBER: 09/840,459
PRIOR APPLICATION NUMBER: PCT/US01/03537
PRIOR FILING DATE: 2001-02-02
PRIOR FILING DATE: 2000-02-03
PRIOR FILING DATE: 1999-07-22
PRIOR APPLICATION NUMBER: 09/859,193
PRIOR FILING DATE: 1999-07-23
PRIOR FILING DATE: 1999-07-23
PRIOR FILING DATE: 1999-07-23
PRIOR FILING DATE: 1999-07-23
NUMBER OF SEQ ID NOS: 107
SEQ ID NO 32
LENGTH: 100
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 JUNEARY LALONGE TO THE REPEATED THE REPEATED TO THE REPEATED THE ROBANGE THE REPEATED THE ROBE OF THE REPEATED THE ROBE OF THE REPEATED THE ROBE THEREFOR TITLE OF INVENTION: HUMANIZED ANTI-CCR2 ANTIBODIES AND FILE REFERENCE: 1855.105-028

CURRENT FILING DATE: 2004-01-27

PRIOR FILING DATE: 1998-07-23

PRIOR FILING DATE: 1998-07-23

PRIOR FILING DATE: 1998-07-23

PRIOR FILING DATE: 1998-07-23

NUMBER OF SEQ ID NOS: 106

SEQ ID NO 32

LERNOTH: 100

TYPE: PRI
 0; Mismatches
 Sequence 32, Application US/10766610 GENERAL INFORMATION:
APPLICANT: LaRosa, Gregory J.
 Best_Local Similarity 100.
Matches 7; Conservative
 TYPE: PRT
ORGANISM: Mus musculus
 FILEISR 82
 FTLEISR 82
 1 FTLEISR 7
 FTLEISR
 US-10-766-610-32
 RESULT 15
US-10-766-773-32
 US-10-766-610-32
 94
 Query Match
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 8
 q
 ;0
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 ;
0
 Gaps
 Gaps
 Gaps
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 ;
0
 ö
 Query Match
Best Local Similarity 100.0%; Score 33; DB 33; Length 100;
Best Local Similarity 100.0%; Pred. No. 29;
Matches 7; Conservative 0; Mismatches 0; Indels
 100.0%; Score 33; DB 1; Length 100; 100.0%; Pred. No. 29;
 100.0%; Score 33; DB 1; Length 100; 100.0%; Pred. No. 29;
 Indels
 0; Indels
 | GENERAL INFORMATION:
| APPLICANT: O'Keefe, Theresa
| APPLICANT: O'Keefe, Theresa
| APPLICANT: O'Keefe, Paul
| TITLE OF INVENTION: HUMANIZED ANTI-CCR2 ANTIBODIES AND
| TITLE OF INVENTION: HETHODS OF USE THEREOF
| FILE REFERENCE: 10448-213001
| CURRENT FILING DATE: 2002-10-10
| PRIOR APPLICATION NUMBER: US 10/272,899
| PRIOR PILING DATE: 2002-10-17
| PRIOR PILING DATE: 2002-10-17
| PRIOR FILING DATE: 2002-6-26
| PRIOR FILING DATE: 2002-10-19
| PRIOR FILING DATE: 2001-10-19
| PRIOR FILING DATE: 2001-10-19
| NUMBER OF SEQ ID NOS: 122
| SOFTWARE: FastSEQ for Windows Version 4.0
 APPLICANT: Milennium Pharmaceuticals, Inc.
TITLE OF INVENTION: HUMANIZED ANTI-CCR2 ANTIBODIES AND
TITLE OF INVENTION: HERHODS OF USE THEREOF
FILE REFERENCE: 10448-213W01
CURRENT APPLICATION NUMBER: PCT/US03/39599A
CURRENT FILING DATE: 2003-12-10
NUMBER OF SEQ ID NOS: 122
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SEQ ID NO 3.2
LENGTH: 100
 ;
0
 Mismatches
 0; Mismatches
NUMBER OF SEQ ID NOS: 107
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 32
LENGTH: 100
TYPE: PRT
 Sequence 32, Application PC/TUS0339599A GENERAL INFORMATION:
 US-10-733-563-32; Sequence 32, Application US/10733563; GENERAL INFORMATION:
 .;
 Query Match
Best Local Similarity 100.
Matches 7; Conservative
 Conservative
 ORGANISM: Mus musculus
 ORGANISM: Mus musculus
PCT-US03-39599A-32
 TYPE: PRT
ORGANISM: Mus musculus
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Best Local Similarity
'''^a 7; Conserv?
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76 FTLEISR 82
 76 řílkisk 82
 1 FTLEISR 7
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 1 FTLEISR
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PCT-US03-39599A-32
 PCT-US01-03537-32
 US-10-733-563-32
 TYPE: PRT
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, ORGANISM: Mus musculus
US-10-766-773-32
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0; Gaps Query Match 100.0%; Score 33; DB 33; Length 100; Best Local Similarity 100.0%; Pred. No. 29; Matches 7; Conservative 0; Mismatches 0; Indels 0 δ

0;

Search completed: November 4, 2004, 01:09:18 Job time: 287.667 secs

qq

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2004, 07:01:08 ; Search time 38 Seconds (without alignments) 17.724 Million cell updates/sec
GenCore version 5.1.6
(c) 1993 - 2004 Compugen Ltd.
 OM protein - protein search, using sw model
 BLOSUM62
Gapop 10.0 , Gapext 0.5
 US-09-712-819D-6
33
1 FTLKISR 7
 4,
 Copyright
 November
 Perfect score:
 Scoring table:
 Sequence:
 Run on:
```

seq length: 0 seq length: 7 Minimum DB Maximum DB

Total number of hits satisfying chosen parameters:

283416 seqs, 96216763 residues

Searched:

457

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries Database :

PIR 79:\*
1: pir1:\*
2: pir2:\*
3: pir3:\*
4: pir4:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

alkanal monooxygen phosphoprotein, bo T-call receptor be T-call receptor be T-call receptor be surface protein te glycogen phosphory flagellar protein Y protein - human alpha-1,4-glucan-p MFC H2-L antigen -T-cell receptor be T-cell receptor be cytotoxic T-lympho peptidyl-dipeptida phosphotransferase pilE protein - Esc omega-gliadine 1' T-cell receptor be 18K protein 5507 -cytochrome-c oxida hypothetical prote phosphonoacetaldeh hypothetical prote T-cell receptor be N-formyl oligopept 28K ubiquitin-immu ribosomal protein endoglucanase F -Description SUMMARIES \$19630 \$28709 \$10644 \$10644 \$13892 \$113892 \$146627 \$146627 \$11127 \$11127 \$11127 \$11127 \$11127 \$11127 \$11127 \$11127 \$11127 \$11127 \$11127 \$11127 \$11127 \$11127 \$11127 \$11127 \$11127 \$11127 \$11127 \$11127 \$11127 \$11127 \$11127 \$11127 \$11127 \$11127 \$11127 \$11127 \$11127 \$11127 \$11127 \$11127 \$11127 \$11127 \$11127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1127 \$1 165546 PT0518 PT0662 149424 JN0859 B39127 S25266 PN0150 A60521 E42364 PT0565 A60986 A43766 I37263 B26206 B % Query Match Length D Score Result 

| ribosomal protein<br>glycoprotein compo           | T-cell receptor be<br>glutathione S-tran | major fat-globule<br>pullulanase (EC 3. | globulin IV alpha<br>choline oxidase (E | sex pheromone cAM3<br>sex pheromone cCF1 | hypothetical prote ribosomal protein |                          | R-phycoerythrin al |
|---------------------------------------------------|------------------------------------------|-----------------------------------------|-----------------------------------------|------------------------------------------|--------------------------------------|--------------------------|--------------------|
| 7 2 S78024<br>7 2 E48394<br>7 2 148086            | 7 2 PT0671<br>7 2 S66442                 | 7 2 B48394<br>7 2 PN0649                | -3 -4                                   | 7 2 A25269<br>7 2 A30812                 | 4 2 I40505<br>5 2 I39964             | 5 2 139966<br>5 2 139965 | 5 2 B22565         |
| 9 9 9 9 27 .3 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 |                                          |                                         | 9 27.3                                  |                                          | 8 24.2<br>8 24.2                     | 8 24.2<br>8 24.2         | 8 24.2             |
| 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3             | 33                                       | 3 9 2                                   | 38                                      | 98<br>94<br>0                            | 41<br>42                             | 4.4.<br>4.4.             | 45                 |

## ALIGNMENTS

| A28/09 |
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CiDate: 22-Aug-1988 #sequence\_revision 22-Aug-1988 #text\_cnange 30-sep-1993 C;Accession: A28709 R;Olsen, D.B.; Hepburn, T.W.; Moos, M.; Mariano, P.S.; Dunaway-Mariano, D. Biochemistry 27, 2229-2234, 1988 A;Title: Investigation of the Bacillus cereus phosphonoacetaldehyde hydrolase. Evidence

A; Reference number: A28709; MUID:88241058; PMID:3132206 A; Accession: A28709 A; Status: preliminary A; Molecule type: protein A; Residues: 1-7 <0LS>

39.4%; Score 13; DB 2; Length 7; 100.0%; Pred. No. 2.8e+05; Live 0; Mismatches 0; Indels Query Match
Best Local Similarity 100.0
Matches 3; Conservative 3 LKI 5 ਨੇ

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Cypochrome-c oxidase (EC 1.9.3.1) chain I [imported] - river lamprey mitochondrion (fra Cypochrome-c oxidase (EC 1.9.3.1) chain I [imported] - river lamprey mitochondrion Lampetra fluviatilis (river lamprey)
Cybate: 15-Jun-2001 #sequence_revision 15-Jun-2001 #text_change 15-Jun-2001
CyAccession: T13892
Rybelarbre (C.; Barriel, V.; Tillier, S.; Janvier, P.; Gachelin, G.
A.Title: The main features of the craniate mitochondrial DNA between the ND1 and the CO A.Title: The main features of the craniate mitochondrial DNA between the ND1 and the CO A; Reference number: Z17775; MUID:97398704; PMID:9254918
A; Accession: T13892
A; Accession: T13892
A; Accession: T13892
A; Accession: DNA
A; Residues: 1-3 chain A; Accessive EMBL: V09528; NID:92340016; PIDN:CAA70721.1; PID:94379123
C; Genetics:
 hypothetical protein c4 - loblolly pine
C;Species: Pinus teeda (loblolly pine)
C;Gpecies: Pinus teeda (loblolly pine)
C;Date: 18-Feb-2000 #sequence_revision 18-Feb-2000 #text_change 18-Feb-2000
C;Date: 18-Feb-2000 #sequence_revision 18-Feb-2000 #text_change 18-Feb-2000
C;Accession: T46627
R;Chang, S.; Puryea, J.; Funkhouser, E.A.; Newton, R.J.; Cairney, J.
Submitted to the EMBL Data Library, July 1995
A;Description: Cloning of a chitinase homolog which lacks chitin binding sites and is on A;Reference number: Z23105
A;Reference number: Z23105
A;Accession: T46627
A;Accession: T46627
A;Accession: T46627
A;Accession: T46627
A;Accession: T46627
A;Residues: 1-4 cCHA
A;Residues: 1-4 cCHA
A;CSSS-references: EMBL:U31309; NID:g974285; PID:g974292
A;Experimental source: strain s6PT2xs6FT3; 8 month seedlings
 dendoglucanase F - Clostridium thermocellum (fragment)
C;Species: Clostridium thermocellum
C;Species: Clostridium thermocellum
C;Species: Clostridium thermocellum
C;Species: Clostridium thermocellum
C;Species: Teabort 1956 #text_change 09-Jul-2004
C;Accession: 140804
R;Mishra, S.; Beguin, P.; Aubert, J.
A;Mishra, S.; Beguin, P.; Aubert, J.
A;Moleçule type: mRNA
A;Moleçule type: mRNA
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27.3%; Score 9; DB 2; Length 4;
Best Local Similarity 33.3%; Pred. No. 2.8e+05;
Matches 1; Conservative 2; Mismatches 0; Indels
 Indels
 Query Match
27.3%; Score 9; DB 3; Length 3;
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Matches 2; Conservative 0; Mismatches 0; Indels
 A;Residues: 1-4 <RES>
A;Cross-references: UNIPROT:P26224; GB:M64363; NID:9144771
 C; Keywords: mitochondrion; oxidoreductase
 A; Genome: mitochondrion
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2 II 3
 A; Note: COI
 RESULT 8
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 hypothetical protein - parsley
hypothetical protein - parsley
C;Species: Petroselinum crispum (parsley)
C;Species: Petroselinum crispum (parsley)
C;Species: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 21-Jul-2000
C;Accession: T14910
K;Kircher. S.; Hadger, S.; Hayashi, H.; Weisshaar, B.; Schafer, E.; Frohnmeyer, H.
Mol. Gen. Genet. 257, 595-605, 1998
A;Title: CPRP4a, a novel plant bZIP protein of the CPRF family: comparative analysis of A;Reference number: Z18261; MUID:98265918; PMID:9604882
A;Accession: T14940
A;Accession: T1494
 C;Accession: PT0644
R;Feeney, A.J.
J; Exp. Med. 174, 115-124, 1991
A;Title: Junctional sequences of fetal T cell receptor beta chains have few N regions. A;Reference number: PT0509; MUID:91277601; PMID:1711558
A;Accession: PT0644
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 "BK protein 5507 - rice (strain Nihonbare) (fragment)
C;Species: Oryza sativa (rice)
C;Species: Oryza sativa (rice)
C;Accession: PS0254
R;Tsugita, A.
submitted to JIPID, April 1993
A;Reference number: P$0206
A;Reference number: P$0206
 r.cell receptor beta chain V-D-J region (111-1G) - mouse (fragment)
C,Species: Mus musculus (house mouse)
C,Date: 17-Jul-1992 #sequence_revision 17-Jul-1992 #text_change 09-Jul-2004
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 10.3%; Score 10; DB 2; Length 7; Larity 40.0%; Pred. No. 2.8e+05; Conservative 2; Mismatches 1; Indels
 Query Match 33.3%; Score 11; DB 2; Length 5; Best Local Similarity 100.0%; Pred. No. 2.8e+05; Matches 2; Conservative 0; Mismatches 0; Indels
 Score 12; DB 2; Length 5; Pred. No. 2.8e+05; 1; Mismatches 0; Indels
 A;Experimental source: leaf, chloroplast, strain Nihonbare A;Note: molecular weight 18K, pl 4.4
 A; Molecule type: mRNA
A; Residues: 1-5 < FEE>
A; Cross-references: UNIPROT: Q9Z2T6
A; Experimental source: newborn thymus, strain BALB/c
C; Keywords: T-cell receptor
 Query Match 36.4%;
Best Local Similarity 66.7%;
Matches 2; Conservative
 A; Status: translation not shown
 A; Molecule type: protein
 Query Match
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 A; Residues: 1-7 <TSU>
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 RESULT 5
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R; Feeney, A.J.
J. Exp. Med. 174, 115-124, 1991
J. Exp. Med. 174, 115-124, 1991
J. Exp. Med. 174, 115-124, 1991
A. Tittle: Junctional sequences of fetal T cell receptor beta chains have few N regions. A. Reference number: PT0509; MUID:91277601; PMID:1711558
A; Accession: PT0525
A; Status: translation not shown
A; Molecule type: mRNA
A; Molecule type: mRNA
 J. Exp. Med. 174, 115-124, 1991
A;Title: Unnctional sequences of fetal T cell receptor beta chains have few N regions.
A;Reference number: PT0509; MUID:91277601; PMID:1711558
 R.Feeney, A.J.
J. Exp. Med. 174, 115-124, 1991
A.Fitler Junctional sequences of fetal T cell receptor beta chains have few N regions.
A.Facterence number: PT0509; MUID:91277601; PMID:1711558
A.Accession: PT0700
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 T-cell receptor beta chain V-D-J region (141-1BC) - mouse (fragment) C; Species: Mus musculus (house mouse) C; Date: 17-Jul-1992 #sequence_revision 17-Jul-1992 #text_change 30-May-1997 C; Accession: PT0577; PT0574
 T-cell receptor beta chain V-D-J region (161-2A) - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Date: 17-Jul-1992 #sequence_revision 17-Jul-1992 #text_change 30-May-1997
 Gaps
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 A;Status: translation not shown
A;Molecule type: mRNA
A;Residues: 1-5 - FFEE>
A;Experimental source: day 19 fetal thymus, strain BALB/c, clone 141-1BC
A;Accession: PT0574
 Gaps
 A;Residues: 1-5 <FE2>
A;Experimental source: day 19 fetal thymus, strain BALB/c, clone 141-1Q
C;Keywords: T-cell receptor
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 Length 5;
 27.3%; Score 9; DB 2; Length 5; 100.0%; Pred. No. 2.8e+05; tive 0; Mismatches 0; Indel
 Query Match 27.3%; Score 9; DB 2; Length 5; Best Local Similarity 100.0%; Pred. No. 2.8e+05; Matches 2; Conservative 0; Mismatches 0; Indeli
 27.3%; Score 9; DB 2; Len
100.0%; Pred. No. 2.8e+05;
ative 0; Mismatches 0;
 A;Molecule type: DNA
A;Residues: 1-5 <FEE>
A;Experimental source: newborn thymus, strain BALB/c
C;Keywords: T-cell receptor
 A,Residues: 1-5 <FEE>
A,Experimental source: adult thymus, strain BALB/c C,Keywords: T-cell receptor
 A; Status: translation not shown
 A;Status: translation not shown
 Query Match
Best Local Similarity 100.0
Matches 2; Conservative
 2; Conservative
 Query Match
Best Local Similarity
Matches 2; Conserv
 A; Molecule type: mRNA
 C, Accession: PT0700
R; Feeney, A.J.
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 alkanal monooxygenase (FMN-linked) (EC 1.14.14.3) alpha chain - Vibrio harveyi (fragment C;Species: Vibrio harveyi (argument C;Species: Vibrio harveyi (argument C;Species: Vibrio harveyi (argument C;Bote: 03.40m.1993 #text_change 26-May-2000 C;Accession: A44955 #sequence_revision 03.7un-1993 #text_change 26-May-2000 R;Paquatte, O.; Tu, S.C.
Photochem: Dhotobiol. 50, 817-825, 1989
A;Ttle: Chemical modification and characterization of the alpha cysteine 106 at the Vib A;Reference number: A44955, MUID:90175700; PMID:2626493
A;Ttle: Affacts: preliminary
A;Accession: A44955
A;Actus: preliminary
A;Actus: preliminary
A;Residues: 1-5 cPAO>
 RESULT 10

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 T-cell receptor beta chain V-D-J region (100-4J) - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Date: 17-Jul-1992 #sequence_revision 17-Jul-1992 #text_change 30-May-1997
C;Accession: PT0525
 Gaps
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 DB 2; Lc...
O. 2.8e+05;
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 Length 4;
 Length 5;
 DB 2; Len
 DB 2; Le
 27.3%; Score 9; DB 2
100.0%; Pred. No. 2.8
:ive 0; Mismatches
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 27.3%; Score 9; DB 2
33.3%; Pred. No. 2.8¢
tive 2; Mismatches
 27.3%; Score 9; 66.7%; Pred. No.
 2; Conservative
 Conservative
 Conservative
 A;Status: preliminary
A;Molecule type: protein
A;Residues: 'X',2-5 <MIK2>
 C; Keywords: phosphoprotein
 Query Match
Best Local Similarity
 Query Match
Best Local Similarity
Matches 2; Conserv
 A; Molecule type: protein A; Residues: 1-5 <MIK1>
 Query Match
Best Local Similarity
Matches 2; Conserv
 :|:
VSK 5
 7
 IXR 5
 5 ISR 7
C;Genetics:
A;Gene: celF
A;Start codon: TTG
 IJ
 A; Accession: S11128
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 5 ISR
 RESULT 11
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Glycogen phosphorylase (EC 2.4.1.1), muscle - mullet (Liza ramada) (fragment)
N;Alternate names: glycogen phosphorylase b
C;Species: Liza ramada
C;Species: Liza ramada
C;Accession: A60521
R;Bonamusa, L.; Baanante, I.V.
Comp. Blochen. Physiol. B 95, 295-301, 1990
Comp. Blochen. Physiol. B 95, 295-301, 1990
A;Title: Purification and characterization of glycogen phosphorylase B from skeletal muscherence number: A60521; MUID:90277907; PMID:2109669
A;Accession: A60521
A;Ablacule type: protein
A;Residuse: 1-5 <BON>
C;Keywords: glycosyltransferase; hexosyltransferase; phosphoprotein
F;3/Binding site: phosphate (Ser) (covalent) (by phosphorylase b kinase) #status experim
 C;Accession: 869237
R;Peters, J.; Mitsch, M.; Kuehlmorgen, B.; Golbik, R.; Lupas, A.; Kellermann, J.; Engelh M.; Mol. Biol. 245, 385-401, 1995
A;Title: trabrachion: a filamentous archaebacterial surface protein assembly of unusua A;Reference number: 869237; MUID:95139068; PMID:7837271
 0
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 Surface protein tetrabrachion heavy chain - Staphylothermus marinus (fragment) C;Species: Staphylothermus marinus C;Species: 04-Dec-1997 #sequence_revision 04-Dec-1997 #text_change 17-Mar-1999
 Gaps
 Gaps
 .
 13.3%; Score 9; DB 2; Length 5; Score 9; DB 2; Length 5; Secore 10. 2.8e+05; Conservative 1; Mismatches 0; Indels
 27.3%; Score 9; DB 2; Length 5; 100.0%; Pred. No. 2.8e+05; vative 0; Mismatches 0; Indels
 A;Molecule type: protein
A;Residues: 1-5 <PET>
A;Experimental source: strain F1, DSM 3639
C;Keywords: cell wall; glycoprotein; heat-stable protein
 Search completed: November 4, 2004, 07:10:22 Job time : 39 secs
 Query Match
Best Local Similarity 100.
Matches 2; Conservative
 Query Match
Best Local Similarity
Matches 2; Conserv
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1 QIS 3
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2 TL 3
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 RESULT 15
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 P82181
P82181;
 Query Match
 P82182
 RESULT 2
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 P82541 spinacia ol
P99025 mus musculu
Q08433 rattus sp.
P38639 mus musculu
P81351 clostridium
P20104 enterococcu
 synechococc
borrelia bu
borrelia bu
borrelia bu
rattus norv
 itoria rub
 litoria rub
 Q95945 saccharomyc
P83530 lactobacill
 clostridium
enterococcu
 alcaligenes
enterococcu
 rattus norv
 zea mays (m
 homo sapien
 lycopersico
 carcinus ma
 carcinus ma
 daucus caro
 carcinus ma
 06:53:12; Search time 188 Seconds (without alignments)
21.424 Million cell updates/sec
 Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
 carcinus
 P16101
P11932
 P80630
Q15897
 P93233
000354
000354
0089104
00891104
0055184
0055184
0055184
00818181
0081805
0081805
0081805
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0081805
0081805
 167
 GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
 Total number of hits satisfying chosen parameters:
 1825181 segs, 575374646 residues
 SUMMARIES
 P83530
P82541
GFRP MOUSE
Q08433
UF01_MOUSE
 UFOI MOUSE
UNO6-CLOPA
CCFI ENTFA
CHOX ALCSP
CIA ENTFA
UC24 MAIZE
Q15897
 Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
 sw model
 AL14 CARMA
PSK DAUCA
ALLZ CARMA
 ALL4 CARMA
ALL5 CARMA
 CARMA
 Gapop 10.0 , Gapext 0.5
 007354
Q8GL00
Q8GL04
Q8GL12
O55184
 Q63480
Q8K3H6
Q8JE81
 UniProt_02:*
1: uniprot_sprot:*
2: uniprot_trembl:*
 protein search, using
 4, 2004,
 US-09-712-819D-6
33
1 FTLKISR 7
 Query
Match Length DB
 November
 seq length: 0 seq length: 7
 BLOSUM62
 Perfect score:
 Scoring table:
 Score
 OM protein -
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Maximum DB
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 Result
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 locusta mig
human herpe
homo sapien
 cydia pomon
mytilus edu
 enterobacte
 human adeno
 human adeno
 vibrio fisc
bacillus ce
 hirudo medi
 azotobacter
 homo sapien
 the proteins in
 TESTAINCY. ALWARO; TISSUE=Leaf;

MEDLINE=20435798; PubMed=10874046;

MEDLINE=20435798; PubMed=10874046;

MEDLINE=20435798; PubMed=10874046;

The plastid ribosomeal proteins. identification of all the proteins is the 50 S subunit of an organelle ribosome (chloroplast).";

The plastid ribosomeal proteins. identification of all the proteins is the 50 S subunit of an organelle ribosome (chloroplast).";

The plastid ribosomeal proteins. identification of all the proteins is the 50 S subunit of MECTLY TO 238 RIBOSOMAL RNA.

THOUSTON: THIS PROTEIN BINDS DIRECTLY TO 238 RIBOSOMAL RNA.

THIS CHILDRAITY: ENLORGY TO THE 110P FAMILY OF RIBOSOMAL PROTEINS.

COURSELINEARY: BELONGS TO THE 110P FAMILY OF RIBOSOMAL PROTEINS.

GO; GO:0003735; F:RRNA binding; IEA.

GO; GO:0003735; F:RRNA binding; IEA.

RO; GO:0003735; R:RDOSOMAL LIO: Deb.

R Childrain Ribosomal Liotub.

R Childrain Ribosomal protein; RNA-binding.
 Spinacia oleracea (Spinach).
Spinacia oleracea (Spinach).
Bukaryota, Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
Caryophyllales; Amaranthaceae; Spinacia.
 01-JUN-2000 (TrEMBLrel. 14, Created)
01-JUN-2000 (TrEMBLrel. 14, Last sequence update)
01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
Chloroplast 50S ribosomal protein L10 gamma (Fragment).
Spinacia oleracea (Spinach).
Bukaryota, Viridiplantae, Streptophyta, Embryophyta; Tracheophyta,
 P42564 P70804 Q47029 Q9yiro D9yve3 P24272 P83073 P41491
 .
0
 P23210
Q8nhh7
 Q8taq4
 Indels
 Length 6;
 01-JUN-2000 (TrEMBLrel. 14, Created)
01-JUN-2000 (TrEMBLrel. 14, Last sequence update)
01-CT-2003 (TrEMBLrel. 25, Last annotation update)
Chloroplast 50S ribosomal protein L10 beta (Fragment).
 6 AA; 675 MW; 6321B415B05DB000 CRC64;
 Score 13; DB 2; Ler
; Pred. No. 1.8e+06;
 6 AA.
 6 AA.
ALL7_CYDPO
CARP_MYTED
FARS_HIRME
P70804
 Q9YVE3
LUXE VIBFI
P83073
 LOKI LOCMI
VP19 HHV1K
Q8NHH7
Q8TAQ4
 Q47029
Q9YIQ9
Q9YIR0
 39.4%; Scc.
100.0%; Prec
 PRELIMINARY;
 Conservative
 PRELIMINARY;
 Best_Local Similarity
Matches 3; Conserv
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(Rel. 41, Created)
 Conservative
 Conservative
 PRELIMINARY;
 STANDARD;
 Query Match
Best Local Similarity
Matches 2; Conserv
 Best Local Similarity
Matches 2; Conserv
 NCBI_TaxID=104895;
 SEQUENCE FROM N.A.
 NCBI_TaxID=4932;
 Mitochondrion.
NON TER 1
SEQUENCE 7 AA
 4 KIS 6
 Mitochondrion.
 1 FT 2
 28-FEB-2003
 28-FEB-2003.
 05-JUL-2004
 RE32 LITRU
ID RE32 LITRU
AC P82073;
 Query Match
 SEQUENCE
 095945
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 the proteins in
 TISSUE=Skin secretion;
Steinborner S.T., Wabnitz P.A., Waugh R.J., Bowie J.H., Gao C.,
Tyler M.J., Wallace J.C.;
"The M.J., Wallace J.C.;
"The structure of new peptides from the Australin red tree frog
'Litoria rubella'. The skin peptide profile as a probe for the study
of evolutionary trends of amphibians.";
Aust. J. Chem. 49:955-963(1996).
i. FUNCTION: Shows neither neuropeptide activity nor antibiotic
 Gaps
 SERQUANCE.

STRAINECV. ALWARO; TISSUE=Leaf;

MEDLINE=20435798; PubMed=10874046;

A Yamaquchi K., Subramanian A.R.;

"The plastid ribosomal proteins. Identification of all the proteins if the 50 subunit of an organelle ribosome (chloroplast).";

I. Biol. Chem. 275:28466-28462(2000).

I. Biol. Chem. 275:28466-28462(2000).

-! FUNCTION: THIS PROTEIN BINDS DIRECTLY TO 23S RIBOSOMAL RNA.

-! SUBCELLULAR LOCATION: CHLOROPLAST.

-! SUBCELLULAR LOCATION: EXPRESSED IN ALL PLANT TISSUES.

-! ASCELLANDOUS: ON THE 2D-GEL ITS MW IS: 16.5 kDa.

-! SIMILARITY: BELONGS TO THE LIOP FAMILY OF RIBOSOWAL PROTEINS.

GO; GO:0009507; C:chloroplast; IEA.

GO; GO:0003735; F:structural constituent of ribosome; IEA.

R GO; GO:0003735; F:structural LiOeub.

R PROSITE; PS01109; RIBOSOWAL_LIO; PARTIAL.
 Gaps
 Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi, Amphibia, Batrachia, Anura, Neobatrachia, Hyloidea, Hylidae, Pelodryadinae, Litoria.
 -!- SUBCELLÍLAR LOCATION: Secreted.
-!- TISSUB SPECIFICITY: Expressed by the skin dorsal glands.
-!- MASS SPECIFOMETRY: MW=655, METHOD=FAB; RANGE=1-5; NOTE=Ref.1.
Amidation; Amphibian defense peptide; Direct protein sequencing.
MOD RES 5 F Threonine amide.
SEQÜENCE 5 AA; 656 MW; 71A9C9CB10300000 CRC64;
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0
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Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
 33.3%; Score 11; DB 1; Length 5; 100.0%; Pred. No. 1.8e+06; tive 0; Mismatches 0; Indels
 Indels
 Length 6;
 6 AA; 675 MW; 6321B415B05DB000 CRC64;
 39.4%; Score 13; DB 2; Le
.larity 100.0%; Pred. No. 1.8e+06;
Conservative 0; Mismatches 0;
 28-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
Litoria rubella (Desert tree frog):
 Chloroplast; Ribosomal protein; rRNA-binding.
 5 AA.
 Caryophyllales, Amaranthaceae, Spinacia.
NCBI_TaxID=3562;
 SEQUENCE, AND MASS SPECTROMETRY.
 Query Match 33.3
Best Local Similarity 100.
Matches 2; Conservative
 STANDARD;
 Best Local Similarity
Matches 3; Conserv
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 RE31 LITRU
P82072;
 SEQUENCE
 Query Match
 LITRU
 RESULT 3
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 Gaps
 Gaps
 TISSUB-Skin secretion;
Whathitz P.A., Bowle J.H., Tyler M.J., Wallace J.C.;
Peptides from the skin glands of the Australian buzzing tree frog
Intoria electrica. Comparison with the skin peptides from Litoria
 Rubellidin 3.2.
Litoria rubella (Desert tree frog).
Litoria rubella (Desert tree frog).
Litoria rubella (Desert tree Armiata; Vertebrata; Euteleostomi; Amprayora; Chordata; Craniata; Vertebrata; Euteleostomi; Amphibia; Batrachia; Anura; Neobatrachia; Hyloidea; Hylidae; Pelodryadinae; Litoria.
 Aust. J. Chem. 52:639-645(1999).
Aust. J. Chem. 52:639-645(1999).
-!- FUNCTION: Shows neither neuropeptide activity nor antibiotic activity.
-!- SUBCELLULAR LOCATION: Secreted.
-!- TISSUE SPECIFICITY: Expressed by the skin dorsal glands.
Amphibian defense peptide; Direct protein sequencing.
SEQUENCE 5 AA; 570 MW; 71A9C9C862A00000 CRC64;
 Bukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes; Saccharomycetales; Saccharomycetaceae; Saccharomycetales;
 .
0
 ;
0
 "Assembly of the mitochondrial membrane system: Structure and
nucleotide sequence of the gene coding for subunit 1 of yeast
 STRAIN=D273-10B;
MEDLINE=81069885; PubMed=6254986;
Bonitz S.G., Coruzzi G., Thalenfeld B., Tzagoloff A., Macino
"Assembly of the mitochondrial membrane system: Structure and
 33.3%; Score 11; DB 2; Length 7; 66.7%; Pred. No. 1.8e+06; 1; Mismatches 0; Indels
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 0; Indels
 Length
 Q95945;
01-FEB-1997 (TrEMBLrel. 02, Created)
01-FEB-1997 (TrEMBLrel. 02, Last sequence update)
01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
Inside intron 5 (Fragment).
 7 AA; 859 MW; 75B7232362CDC460 CRC64;
 33.3%; Score 11; DB 1; Le
100.0%; Pred. No. 1.8e+06;
tive 0; Mismatches 0;
 (Rel. 41, Last sequence update)
(Rel. 44, Last annotation update)
 7 AA.
5 AA.
 Saccharomyces cerevisiae (Baker's yeast).
 cytochrome oxidase.";
J. Biol. Chem. 255:11927-11941(1980).
EMBL; V00694; CAA4066.1; -.
GO; GO:0005739; C:mitochondrion; IEA.
 PRT;
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Matches
 RESULT 8
 RESULT 9
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 STRAIN-CV. AUMARIO, ARIO PREASS STRUCTURE.

X MEDLINE=20435797; PubMed=10874039;
X MEDLINE=20435797; PubMed=10874039;
X Tanguchi K., von Knoblauch K., Subramanian A.R.;
X The plastid ribosomal proteins. Identification of all the proteins in the snall subunit of an organalle ribosome (chloroplast).";
XI The plastid ribosomal proteins. Identification of all the proteins in the snall subunit of an organalle ribosome (chloroplast).";
XI The MIST STROTEIN BINDS DIRECTLY TO 16S RIBOSOMAL RNA.

CC -1- FUNCTION: THIS PROTEIN BINDS DIRECTLY TO 16S RIBOSOMAL RNA.

CC -1- FUNCTION: THIS PROTEIN BINDS DIRECTLY TO 16S RIBOSOMAL RNA.

CC -1- FUNCTION: THIS PROTEIN BINDS DIRECTLY TO 16S RIBOSOMAL RNA.

CC -1- MASS SPECTROMETRY: WW=10495; METHOD=MALDI.

CC -1- MASS SPECTROMETRY: WW=10495; METHOD=MALDI.

CC -1- MASS SPECTROMETRY: WW=10495; METHOD=MALDI.

CC -1- STAILARITY: BELONGS TO THE S19P FAMILY OF RIBOSOMAL PROTEINS.

CC -1- STMILARITY: BELONGS TO THE S19P FAMILY OF RIBOSOMAL PROTEINS.

CC -1- STMILARITY: BELONGS TO THE S19P FAMILY OF RIBOSOMAL PROTEINS.

CC -1- STMILARITY: BELONGS TO THE S19P FAMILY OF RIBOSOMAL PROTEINS.

CC -1- STMILARITY: BELONGS TO THE S19P FAMILY OF RIBOSOMAL PROTEINS.

CC -1- STMILARITY: BELONGS TO THE S19P FAMILY OF RIBOSOMAL PROTEINS.

CC -1- STMILARITY: BELONGS TO THE S19P FAMILY OF RIBOSOMAL S19; PARTIAL.

CC -1- STMILARITY: BELONGS TO THE S19P FAMILY OF RIBOSOME; IEA.

CC -1- STMILARITY: BELONGS TO THE S19P FAMILY OF RIBOSOME; IEA.

CC -1- STMILARITY: BELONGS TO THE S19P FAMILY OF RIBOSOME; IEA.

CC -1- STMILARITY: BELONGS TO THE S19P FAMILY OF RIBOSOME; IEA.

CC -1- STMILARITY: BELONGS TO THE S19P FAMILY OF RIBOSOME; IEA.

CC -1- STMILARITY: BELONGS TO THE S19P FAMILY OF RIBOSOME; IEA.

CC -1- STMILARITY: BELONGS TO THE S19P FAMILY OF RIBOSOME; IEA.
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 Gaps
 Drews O., Weiss W., Reil G., Parlar H., Wait R., Goerg A.;
"High pressure effects step-wise altered protein expression in
Lactobacilus sanfranciscensis.",
Proteomics 2:765-774(2002).
-!- MISCELLANEOUS: On the 2D-gel the determined MW of this unknown
protein is: 15 kDa.
 Bukaryota, Viridiplantae, Streptophyta, Embryophyta, Tracheophyta,
Spermatophyta, Magnoliophyta, eudicotyledons, core eudicots,
Caryophyllales, Amaranthaceae, Spinacia.
 ô
 01-JUN-2003 (TrEMBLrel. 24, Created)
01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
Unknown protein from 2D-page (Fragment).
Lactobacillus sanfranciscensis (Lactobacillus sanfrancisco)
Bacteria, Firmicutes, Lactobacillales; Lactobacillus.
 33.3%; Score 11; DB 2; Length 7; 50.0%; Pred. No. 1.8e+06; Live 1; Mismatches 1; Indels
 01-OCT-2000 (TrEMBLrel. 15, Created)
01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
Chloroplast 30S ribosomal protein S19 beta (Fragment).
Chloroplast.
 790 MW; 6AAB02CAA731B2A0 CRC64;
 7 AA.
 6 AA.
 SEQUENCE, FUNCTION, AND MASS SPECTROMETRY.
 PRT;
 PRT;
 PRELIMINARY;
 Conservative
 PRELIMINARY;
 Query Match
Best Local Similarity
2; Conserve
 STRAIN=DSM 20451;
PubMed=12112860;
 NCBI_TaxID=1625;
 NCBI_TaxID=3562;
 2 TLKI 5
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 NON_TER
SEQUENCE
 SEQUENCE.
 P83530
 P82541;
 P82541
 RESULT 7
PR2541

 RESULT 6
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6
 Sanchez J.-C., Rouge V., Frutiger S., Hughes G., Yan J.X.,
Hoogland C., Appel R.D., Binz P.-A., Hochstrasser D.F., Cowthorne M.;
Submitted (AUG-1998) to Swiss-Prot.
-!- FUNCTION: Mediates tetrachydrobiopterin inhibition of GTP
cyclobydrolase I. This inhibition is reversed by L-phenylalanine
 Gaps
 Gaps
 Rattus sp. Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus. NCBI_TaxID=10118;
 (Rel. 37, Last sequence update)
(Rel. 44, Last annotation update)
rolase I feedback regulatory protein (P35) (Fragment).
 Mus musculus (Mouse).
Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Butheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus
 .;
0
 Sato H., Aono S., Kashiwamata S., Koiwai O.;
"Genetic defect of bilirubin UDP-glucuronosyltransferase in the hyperbilirubinemic Gunn rat.";
Blochem. Biophys. Res. Commun. 177:1161-1164 (1991).
 ö
 Indels
 Length 6;
 30.3%; Score 10; DB 1; Length 7; 75.0%; Pred. No. 1.8e+06; Live 0; Mismatches 1; Indels
 6 AA; 732 MW; 63333735A411C000 CRC64;
 Last sequence update)
Last annotation update)
 7 AA; 806 MW; 71B5B057273B4700 CRC64;
 01-NOV-1996 (TrEMBLrel. 01, Created)
01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
01-UUN-2003 (TrEMBLrel. 24, Last annotation update
Bilirubin UDP-glucuronosyltransferase (Fragment).
 30.3%; Score 10; DB 2; I
llarity 66.7%; Pred. No. 1.8e+06;
Conservative 1; Mismatches 0;
Chloroplast; Ribosomal protein; rRNA-binding.
 7 AA.
 4 AA.
 EMBL; S38636; AAElyzy,1; -.
GO; GO:0016740; F:transferase activity; IEA.
 -!- SUBUNIT: Homodimer (By similarity).
SWISS-2DPAGE; P99025; MOUSE.
Direct protein sequencing.
 PRT;
 MEDLINE=91282758; PubMed=1840486;
 (Rel. 37, Created)
 GTP cyclohydrolase I feedbane=Gchfr; Synonyms=Gfrp;
 Query Match
Best Local Similarity 75.um,
 STANDARD;
 PRELIMINARY;
 (By similarity)
 Local Similarity
 NCBI_TaxID=10090;
 SEQUENCE FROM N.A.
 :||
3 SLK 5
 TLK 4
 LKIS 6
 LLIS 6
 TISSUE=Liver;
 15-DEC-1998
 15-DEC-1998
05-JUL-2004
 2;
 GFRP MOUSE
P99025;
 NON TER
SEQUENCE
 Query Match
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 SEQUENCE
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 GFRP MOUSE
 208433
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27.3%;
50.0%;
 Alcaligenaceae; Alcaligenes.
NCBI_TaxID=512;
 Query Match
Best Local Similarity 50.0
Matches 2; Conservative
 2; Conservative
 STANDARD;
 STANDARD;
 Query Match
Best Local Similarity
Matches 2; Conserv
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 Alcaligenes sp.
 2 TL 3
 TAEI
 3 TL 4
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 CCF1 ENTFA
P20104;
01-FEB-1991
01-FEB-1991
 CHOX ALCSP
 SEQUENCE
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 RESULT 13
CHOX ALCSP
 KESULT 12
CCF1_ENTFA
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 TISSUB-Fibroblast,

MEDLINE-95009907; PubMed=7523108;

MEDLINE-95009907; PubMed=7523108;

Merrioto B.A., Patterson R.M., Wichter L.L., He C., Selkirk J.K.;

Merrioto B.A., Patterson R.M., Wichter L.L., He C., Selkirk J.K.;

Separation and sequencing of familiar and novel murine proteins using preparative two-dimensional gel electrophoresis.";

Electrophoresis 15:735-745(1994).

I MISCELLANGOUS: On the 2D-gel the determined pl of this unknown protein is: 6.6, its MM is: 19 kDa.

Direct protein sequencing.
 Gaps
 Gaps
 Flengerud R., Skjeldal L.; Two-dimension and N-terminal Two-dimensional gel electrophoresis separation and N-terminal sequence analysis of proteins from Clostridium pasteurianum WB."; Electrophoresis 19:802-806(1998).
-!- MISCELIANBOGUS: On the 2D-gel the determined pI of this unknown protein is: 5.0, its WW is: 75.9 kDa.

Direct protein sequencing.
 Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
 UNGG_CLOPA STANDARD; PRT; 6 AA.
P81351;
15-JUL-1998 (Rel. 36, Created)
15-JUL-1998 (Rel. 36, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
05-JUL-2004 (Rel. 45, Last annotation update)
05-JUL-2014 (Rel. 47, Last annotation update)
05-JUL-2014 (Rel. 47, Last annotation update)
05-JUL-2014 (Rel. 47, Last annotation update)
Clostridium pasteurianum.
Clostridium.
Clostridium.
Clostridium.
 ;
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 ..
 01-0CT-1994 (Rel. 30, Created)
01-0CT-1994 (Rel. 30, Last sequence update)
05-0UL-2004 (Rel. 44, Last annotation update)
Unknown protein from 2D-PAGE of fibroblasts (P19) (Fragment).
Mus musculus (Mouse).
 1; Indels
 Indels
 Length 5;
 27.3%; Score 9; DB 2; Length 4;
100.0%; Pred. No. 1.8e+06;
tive 0; Mismatches 0; Indel
 6 AA; 657 MW; 605B1DC1A45A8000 CRC64;
 5 AA; 717 MW; 7364087043100000 CRC64;
Transferase.
NON TER 4 4
SEQUENCE 4 AA, 473 MW; 633732C42000000 CRC64;
 27.3%; Score 9; DB 1; Le 66.7%; Pred. No. 1.8e+06; Live 0; Mismatches 1;
 5 AA.
 MEDLINE=98291870; PubMed=9629918;
 Conservative
 Conservative
 STANDARD;
 Local Similarity
 Query Match
Best Local Similarity
Matches 2; Conserv
 NCBI_TaxID=10090;
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 2,
 STRAIN=W5;
 MOUSE
 NON TER
SEQUENCE
 SEQUENCE
 SEQUENCE
 SEQUENCE
 Query Match
 P38639;
 CLOPA
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 Best Loc
Matches
 RESULT
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 RESULT
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 01-FEB-1991 (Rel. 17, Created)
01-FEB-1991 (Rel. 17, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
Sex pheromone cCF10.
Enterococcus faecalis (Streptococcus faecalis).
Bacteria; Firmicutes; Lactobacillales; Enterococcaceae; Enterococcus.
 Onta-Fukuyama M., Miyake Y., Emi's., Yamano T.;
"Identification and properties of the prosthetic group of choline oxidase from Alcaligenes sp.";
Oxidase from Alcaligenes sp.";
J. Blochem. 88:197-203 (1980).
J. CATALYTIC ACTIVITY: Choline + O(2) = betaine aldehyde + H(2)O(2).
 Gaps
 Gaps
 Gaps
 .
 .
0
 Bacteria, Proteobacteria, Betaproteobacteria, Burkholderiales,
 .;
0
 0; Indels
 Indels
 Query Match

27.3%; Score 9; DB 1; Length 7;
Best Local Similarity 100.0%; Pred. No. 1.8e+06;
Matches 2; Conservative 0; Mismatches 0; Indels
 1; Indels
 27.3%; Score 9; DB 1; Length 7; 100.0%; Pred. No. 1.8e+06; ive 0; Mismatches 0; Indels
Length 6;
 7 AA; 839 MW; 7415B1E457644AC0 CRC64;
 Score 9; DB 1; Losted. No. 1.8e+06;
 01-APR-1990 (Rel. 14, Created)
01-APR-1990 (Rel. 14, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
Choline oxidase (BC 1.1.3.17) (Fragment).
 7 AA.
 7 AA.
 PIR; A15398; A15398.
Direct protein sequencing; Oxidoreductase.
NON TER
 1; Mismatches
 PRT;
 MEDLINE=81006769; PubMed=6997283;
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0
 MEDLINE=87005252; PubMed=3093276;
Mori M., Tanaka H., Sakagami Y., Isogai A., Fujino M., Kitada C.,
Mori B.A., An F.Y., Clewell D.B., Suzuki A.;
Isolation and structure of the Streptococcus faecalis sex pheromone,
cAM373.",
FEBS Lett. 206:69-72(1986).
--- FUNCTION: cAM373 induces mating response of donor cells harboring
 TISSUE-Coleoptile;

TOUZET P., Riccardi F., Morin C., Damerval C., Huet J.-C.,

Pernollet J.-C., Zivy M., de Vienne D.;

"The maize two dimensional gel protein database: towards an integrated genome analysis program.";

Theor. Appl. Genet. 93:997-1005(1996).

-I MISCELLANBOUS: On the 2D-gel the determined pI of this unknown maize-2DPAGE; P80630; COLEOPTILE.

Maizen J. 129956;

Maizen J. 129956;

Maizen J. 129956;
 CIA_ENTFA STANDARD; PRT; 7 AA.
P11932;
01-0CT-1989 (Rel. 12, Created)
01-0CT-1989 (Rel. 12, Last sequence update)
05-UJL-2004 (Rel. 44, Last annotation update)
Sex pheromone cAM373 (Clumping inducing agent) (CIA).
Bacteria; Firmicutes; Lactobacillales; Enterococcaceae; Enterococcus.
NCBI_TAXID=1351;
 Gaps
 Bukaryota, Viridiplantae, Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;
PACCAD clade; Panicoideae; Andropogoneae; Zea.
 .;
0
 01-0CT-1996 (Rel. 34, Created)
01-0CT-1996 (Rel. 34, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
Unknown protein from 2D-PAGE of etiolated coleoptile (Spot 447)
 pAM373.
-1- MISCELLANEOUS: The N-terminus is possibly responsible specificity of pheromones to plasmids.
PIR, A25269; A25269.
Direct protein sequencing; Pheromone.
SEQUENCE 7 AA; 734 MW; 75BDD72059C05DB0 CRC64;
 y Match 27.3%; Score 9; DB 1; Length 7; Local Similarity 66.7%; Pred. No. 1.8e+06; hes 2; Conservative 0; Mismatches 1; Indels
 7 AA.
 Direct protein sequencing.
 STANDARD:
 Zea mays (Maize)
 1 FTL 3
 FIL 5
 RESULT 15
UC24 MAIZE
JUC24 MAIZE
AC DUC24 MAIZE
AC 01-0CT-1996
DT 01-0CT-1996
DT 01-0CT-1996
DT 01-0CT-1996
DE (Fragment).
OS Zea mays (Maize)
OC PACCAD clade
OX Eukaryota; V;
OC PACCAD clade
OX NCBI_TAXID=4;
RP II]
RP SEQUENCE:
RA TOWZET P., R.
RT "The maize t T.
RT "The maize t T.
RT "The maize t T.
RT "Theor. Appl.
CC -!- MISCELIA
CC -!- MISCELIA
DR Maize-2DRAGE
DR MAIZE-2DRAG
 SEQUENCE
 Query Match
RESULT 14
CIA ENTRA
CIA ENTRA
CIA ENTRA
DT 01-0C
DT 05-UU
DE SEX F
OX NCBI
CX
 Matches
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 g
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7 AA; 665 MW; 6DC1B5B33DC1B5D0 CRC64;

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Gaps
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0
 27.3%; Score 9; DB 1; Length 7; 66.7%; Pred. No. 1.8e+06; 1.ve 0; Mismatches 1; Indels
Query Match
Best Local Similarity 66.7
Matches 2, Conservative
 2 TLK 4
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Search completed: November 4, 2004, 07:09:40 Job time: 190 secs

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4, 2004, 06:52:27; Search time 152 Seconds (without alignments) 16.520 Million cell updates/sec GenCore version 5.1.6 Copyright (c) 1993 - 2004 Compugen Ltd. 2002273 seqs, 358729299 residues OM protein - protein search, using sw model BLOSUM62 Gapop 10.0 , Gapext 0.5 US-09-712-819D-6 33 1 FTLKISR 7 November Title: Perfect score: Scoring table: Sequence: Searched: Run on:

seq length: 0 seq length: 7 Minimum DB Maximum DB

Total number of hits satisfying chosen parameters:

116873

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

geneseqp2003as:\* geneseqp2003bs:\* A\_Geneseq\_23Sep04:\* geneseqp1980s:\*
geneseqp1990s:\* geneseqp2000s:\* geneseqp2001s:\* geneseqp2002s:\* geneseqp2004s:\* Database

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

|            | Description | Aav40736 S4 deriva | C C      |          | SCa      |          | ω        | Aav41889 Rheumatoi |          | •        |          |          | t dos 6  | 0        | m        | , 0      | 5 Human  | 1 Multir |          | _        |          | 2 Broact | 217765   | ,<br>,   |          | 27 Vitamin |  |
|------------|-------------|--------------------|----------|----------|----------|----------|----------|--------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------------|--|
| SUMMARIES  | ID          | AAY40736           | AAB30074 | AAY40738 | AAB30076 | AAY42013 | AAR81848 | AAY41889           | ABB55870 | ABB56283 | ABB55981 | AAU28602 | AAU24969 | AAU26249 | AAU15313 | ABB52190 | ABB52355 | ABG78901 | ABG78730 | ABP58010 | ABP57255 | ABP57203 | ABR59010 | ABR59042 | ADH35821 | ADH35827   |  |
|            | DB          | 7                  | m        | 7        | m        | 7        | 71       | 7                  | 4        | 4        | 4        | 4        | 4        | 4        | 4        | 4        | 4        | ហ        | Ŋ        | ø        | φ        | 9        | 9        | ø        | œ        | 8          |  |
|            | Length      | 7                  | 7        | 7        | 7        | 7        | 7        | 7                  | 7        | 7        | 7        | 7        | 7        | 7        | 7        | 7        | 7        | 7        | 7        | 7        | 7        | 7        | 7        | 7        | 7        | 7          |  |
| %<br>Ouerv | !           | 69.7               | 69.7     | 66.7     | 66.7     | 63.6     | 9.09     | 9.09               | 9.09     | 9.09     | 9.09     | 9.09     | 9.09     | 9.09     | 9.09     | 9.09     | 9.09     | 9.09     | 9.09     | 9.09     | 9.09     | 0        | 9.09     | 9.09     | 9.09     | 9.09       |  |
|            | Score       | 23                 | 23       | 22       | 22       | 21       | 50       | 20                 | 20       | 20       | 20       | 20       | 20       | 20       | 20       | 20       | 20       | 20       | 20       | 20       | 20       | 20       | 20       | 20       | 20       | 20         |  |
| Result     | No.         | ч                  | 7        | က        | 4        | ហ        | 9        | 7                  | 8        | თ        | 10       | 11       | 12       | 13       |          | 15       | 16       | 17       | 18       | 19       | 20       | 21       | 22       | 23       | 24       | 25         |  |

| Adn31805 Human Alz |          |          | · -      | י ת<br>ז מי |          |          |          | Human    | Staphy   |          |          |          |          | HIV      | Human    | Microt   | _        | ,        | . თ      |
|--------------------|----------|----------|----------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| ADN31805           | ADN32134 | AD078580 | AAY40737 | AAB30075    | ADB79629 | ADP75041 | ABP66518 | ABR40481 | ABB81854 | ABU69381 | ADE35876 | ADE77927 | ADI57038 | AAW84431 | AAE28110 | ABP95994 | AAR07656 | AAR97970 | AAW69269 |
| œ                  | œ        | 00       | ~        | m           | 7        | œ        | Ŋ        | Ŋ        | Ŋ        | 9        | 7        | 7        | Φ        | ~        | ß        | 9        | 7        | ~        | 0        |
| 7                  | 7        | 7        | _        | 7           | 7        | 7        | 7        | 7        | 7        | 7        | 7        | 7        | 7        | Q        | 9        | G        | 7        | 7        | 7        |
| 20 60.6            | 20 60.6  |          |          | 19 57.6     | 19 57.6  |          | 18 54.5  | 18 54.5  |          |          |          | 54.      | 18 54.5  | 51.      | 51.      | 17 51.5  | 17 51.5  | .7 51.5  | .7 51.5  |
| (4                 | (1       | .,       | -        | +-4         |          | П        | П        | -1       | П        | Н        | ч        | П        | _        | -        | -        | П        | Н        | М        | Н        |
| 56                 | 27       | 28       |          | 30          | 31       | 32       | 33       | 34       | 32       | 36       | 37       | 38       | 39       | 40       | 41       | 42       | 43       | 44       | 45       |

### ALIGNMENTS

Scaffold protein; beta strand; beta sheet; stabilize antigen; vaccine; tumour; chemotherapeutic agent. S4 derivative #10, beta strand of scaffold protein structure. AAY40736 standard; peptide; 7 AA. (first entry) 01-DEC-1999 Synthetic. AAY40736; 

06-OCT-1999. EP947582-A1

98EP-00870065. 31-MAR-1998;

98EP-00870065. (INNO-) INNOGENETICS NV. 31-MAR-1998;

Hoogenboom H, Desmet J, Hufton S, WPI; 1999-542958/46.

Sablon E;

New scaffold protein, useful for stabilizing antigens used as vaccines.

Disclosure, Page 6; 105pp; English.

Sequences AAY40727-Y40748 are functionally equivalent derivatives of the S4 peptide (AAX40607) which forms part of a scaffold protein. S4 is a beta strand peptide which forms part of a beta sheet. Peptides (AAY40601-Y40609) together form a single-chain scaffold protein which contains at least 1 disulfide bond, contains less than 10% alpha helix and contains at least 1 disulfide bond, contains less than 10% alpha helix and contains car least 6 beta-strands. The scaffold protein is constructed of beta strands S1-S6, and may also include beta strands A1-A3, or any functionally equivalent derivative of these sequences. The beta strands C7 form two beta sheets S1/S4/S3 and S6/S5/S2 with each strand connected to the next by hydrogen bonds, which generate a beta sandwich architecture. The constructed of two beta sheets, with the structures the S1/S4/S3 and S6/S5/S2/A2/A3. The beta strands are connected to each confert via amino acid loops, where at least one of the loops binds to a receptor or antigen. The scaffold protein is used to stabilize antigens

FTLSIS

RESULT

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..
 The present invention is concerned with producing scaffold proteins based upon the human CTLA-4 SCA domain. These scaffold proteins can be used as a scaffold to bind antigen- or receptor-binding fragments. These can be used in the treatment of diseases such as cancer, atherosclerosis, thrombosis, osteoporosis, rheumatoid arthritis and diabetic retinopathy. Sequences AAB29930-B29939 were used in the production of the proteins of
 architecture carrying new and randomized peptide sequences useful as supporting framework and carrying antigen- or receptor binding fragments.
or whole proteins such as receptors, or their fragments. It may be used to bind two separate molecules. For example, one surface of the scaffold may be bound to a protein which binds to a tumour antigen. This will target the complex to tumour cells. Another surface may be bound to a cytotoxic molecule or an autoimmune antibody which may then kill the tumour cells. Therefore the scaffold protein may be used to target chemotherapeutic agents to specific cells. It may also be used to stabilize individual peptides in a peptide library and may be used in diagnostic techniques, and to stabilize antigens used as vaccines
 Gaps
 Human; CTLA-4; scaffold protein; antigen-binding; receptor-binding; SCA domain; cancer; thrombosis; osteoporosis, rheumatoid arthritis; diabetic retinopathy; atherosclerosis.
 Scaffold composed of single-chain polypeptide having beta sandwich
 .
0
 1; Indels
 Length
 Score 23; DB 2; I
Pred. No. 1.7e+06;
 Scaffold protein SCA S4 peptide SEQ ID NO: 135.
 Sablon
 0; Mismatches
 Hoodenboom H,
 Disclosure; Page 15; 68pp; English.
 AAB30074 standard; peptide; 7 AA.
 99WO-EP002283
 99WO-EP002283
 / Match 69.7%;
Local Similarity 83.3%;
nes 5; Conservative
 (first entry)
 INNO-) INNOGENETICS NV.
 Hufton S,
 WPI; 2000-665002/64.
 9
 2 Frisis 7
 FTLKIS
 WO200060070-A1.
 Sequence 7 AA;
 Sequence 7 AA;
 01-APR-1999;
 09-FEB-2001
 12-OCT-2000.
 Desmet J,
 Synthetic.
 AAB30074;
 Query Match
 Best Loc
Matches
 RESULT 2
 AAB30074
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Sequences AAY40727-Y40748 are functionally equivalent derivatives of the S4 peptide (AAY40607) which forms part of a beta sheet. Peptides (AAY40601-C5 beta strand peptide which forms part of a beta sheet. Peptides (AAY40601-C7 Y40609) together form a single-chain scaffold protein which contains at least 1 disulfide bond, contains less than 10% alpha helix and contains crat least 6 beta-strands. The scaffold protein is constructed of beta strands s1-86, and may also include beta strands A1-A3, or any functionally equivalent derivative of these sequences. The beta strands of connected to the next by hydrogen bonds, which generate a beta sandwich architecture. If the additional beta strands A1-A3 are included in the structure the cafford is constructed of two beta sheets, with the structure scaffold is constructed of two beta strands are connected to each other via amino acid loops, where at least one of the loops binds to a creeptor or antigen. The scaffold protein is used to stabilize antigens or whole proteins such as receptors, or their fragments. It may be used to bind two separate molecules. For example, one surface of the scaffold carry be bound to a protein which binds to a traingen. Therefore to an autoimmune antibody which may then kill the cumour cells. Therefore the scaffold protein may be used to cytocxic molecule or an autoimmune antibody which may be used to commotherapeutic agents to specific cells. It may also be used in chemotherapeutic agents to specific cells. It may also be used in constant the stabilize individual peptides in a peptide library and may be used in constant the stabilize antigens used as vaccines
 ..
0
 useful for stabilizing antigens used as vaccines.
 Scaffold protein; beta strand; beta sheet; stabilize antigen; vaccine;
 Gaps
 ;
0
 S4 derivative #12, beta strand of scaffold protein structure.
 Length 7;
 Indels
 66.7%; Score 22; DB 2; Le. clarity 83.3%; Pred. No. 1.7e+06; Conservative 0; Mismatches 1;
 Ξ.
 Sablon
 Hoogenboom H,
 Disclosure, Page 6; 105pp; English.
 AAY40738 standard; peptide; 7 AA.
 tumour; chemotherapeutic agent.
 98EP-00870065.
 (first entry)
 (INNO-) INNOGENETICS NV
 New scaffold protein,
 Hufton S,
 WPI; 1999-542958/46.
 Query Match
Best Local Similarity
 1 FTLKIS 6
 FTLTIS
 Sequence 7 AA;
 31-MAR-1998;
 31-MAR-1998;
 5,
 01-DEC-1999
 06-OCT-1999.
 EP947582-A1
 Synthetic.
 Desmet J,
 AAY40738;
 Best Loca
Matches
AAY4073
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RESULT 4

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Gaps

0;

1; Indels Length 7;

Score 23; DB 3; I Pred. No. 1.7e+06; 0; Mismatches 1;

. 0

69.7%; ilarity 83.3%; Conservative

Query Match Best Local Similarity Matches 5; Conserv

1 FTLKIS 6

us-09-712-819d-6.closed.rag

Townsend RR;

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Amethod has been developed for the diagnosis of human rheumatoid arthritis (RA) using two-dimensional electrophoresis to generate a two-dimensional array of features. The method can be used for screening, diagnosis and prognosis of RA in a subject or for monitoring the effect of an anti-RA drug or herapy administered to a subject. The method corpusises: (a) analysing a sample of serum or plasma and optionally synovial fluid by two-dimensional electrophoresis, to generate a two-dimensional array of features; (b) identifying at least one chosen feature whose relative abundance correlates with the presence or absence of RA, and (c) comparing the abundance of each chosen feature in the sample with the abundance of that chosen feature in serum or plasma from one or more persons without RA, where the relative abundance of the chosen feature in serum or plasma from one or more persons without RA, where the relative abundance of the chosen feature in serum or plasma from one or more persons without RA, where the relative abundance of the chosen feature of features in the sample indicates the presence or absence of RA in the subject. The method can also be used in clinical chosen feature for features (RAPS), and for production of antibodies to RPIS. The RA-diagnostic feature (RAPS) proceins can be used to identify compounds that promote or inhibit their activity, which are then used as proceeded and seasons and seasons and seasons and seasons and seasons and the exemplification of the present invention isoform peptides and the exemplification of the present invention are all seasons and seasons a
 Diagnosis of human rheumatoid arthritis by two-dimensional
 (OXFO-) OXFORD GLYCOSCIENCES UK LID.
 Disclosure; Page 21; 157pp; English
 98GB-00005477.
 99WO-GB000763
 63.6%;
83.3%;
 5; Conservative
 Patel TP,
 WPI; 1999-571871/48.
 Query Match
Best Local Similarity
Matches 5; Conserv
 7
 TLMISR 7
 electrophoresis.
 TLKISR
 Sequence 7 AA;
 15-MAR-1999;
 13-MAR-1998;
 WO9527059-A1.
 23-SEP-1999,
 Parekh RB,
 12-0CT-1995.
 N
 AAR81848;
 Homo
 RESULT 6
AAR81848
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 The present invention is concerned with producing scaffold proteins based upon the human CTLA-4 SCA domain. These scaffold proteins can be used as a scaffold to bind antiquen- or receptor-binding fragments. These can be used in the treatment of diseases such as cancer, atherosclerosis, thrombosis, osteoporosis, rheumatoid arthritis and diabetic retinopathy. Sequences AAB29930-B29939 were used in the production of the proteins of
 Scaffold composed of single-chain polypeptide having beta sandwich architecture carrying new and randomized peptide sequences useful as supporting framework and carrying antigen- or receptor binding fragments.
 Gaps
 Human, CTLA-4; scaffold protein; antigen-binding; receptor-binding;
SCA domain; cancer; thrombosis; osteoporosis, rheumatoid arthritis;
diabetic retinopathy; atherosclerosis.
 Human; rheumatoid arthritis; RA; diagnosis; RPI; RADF; detection; Theumatoid arthritis diagnostic feature; RRPI; symovial fluid; rheumatoid arthritis diagnostic protein isoform; screening; expression reference protein isoform; prognosis.
 ;
0
 Rheumatoid arthritis diagnostic protein isoform peptide #164.
 66.7%; Score 22; DB 3; Length 7; 83.3%; Pred. No. 1.7e+06; ive 0; Mismatches 1; Indels
 Scaffold protein SCA S4 peptide SEQ ID NO: 137.
 Sablon E;
 Desmet J, Hufton S, Hoogenboom H,
 Disclosure; Page 15; 68pp; English
 AAB30076 standard; peptide; 7 AA
 AAY42013 standard; peptide; 7 AA.
 99WO-EP002283
 99WO-EP002283
 (first entry)
 (first entry)
 Query Match
Best Local Similarity 83.3
Matches 5; Conservative
 (INNO-) INNOGENETICS NV.
 WPI; 2000-665002/64.
 FTLKIS 6
 FTLTIS
 WO200060070-A1.
 Sequence 7 AA;
 the invention
 01-APR-1999;
 01-APR-1999;
 09-FEB-2001
 09-DEC-1999
 Homo sapiens
 WO9947925-A2
 12-OCT-2000.
 Synthetic
 AAB30076;
 Н
 AAY42013;
AAB30076
ID AAB3
 RESULT 5
AAY42013
ID AAY4
XX
AC AAY4
XX
DT 09-L
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DB Rhei
XX
KW Hum
KW rhe
KW rhe
KW rhe
XX
XX
XX
YX
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YX
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XX
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Human; afamin; serum protein family; albumin; alpha-foetoprotein; plasma; vitamin b binding protein; homology; post-translational processing; bromaatography; Primer; P.R.; amplification; probe; rheumatoid arthritis; ischaemia-reperfusion injury; ARDS; cardiopulmonary bypass; sepsis; toxic plasma substance; inflammation.
 Human afamin tryptic fragment FX20.
AAR81848 standard; peptide; 7 AA.
 16-MAY-1996 (first entry)
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; 0

Score 21, DB 2; Length 7; Pred. No. 1.7e+06; 0; Mismatches 1; Indels

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Screening, diagnosis or prognosis of vascular dementia (VD), usdetermining stage of VD and monitoring the effect of VD therapy
 (OXFO-) OXFORD GLYCOSCIENCES UK LTD.
 Parekh RB,
 WPI; 2001-557937/62.
 Query Match
Best Local Similarity
 7
 : | :: | |
1 YTFELSR
 1 FTLKISR
 electrophoresis.
 WO200169261-A2.
 Sequence 7 AA;
 Herath HMAC,
 24-NOV-2000;
28-NOV-2000;
 A method has
 15-FEB-2002
 20-SEP-2001
 ABB55870;
 Matches
 RESULT 8
 ABB55870
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0
 Peptides AAR81847-54 are tryptic peptide fragments from human afamin (AAR81845) novel member of the human serum protein family. The fragments were used to design primers and probes (AAT00786-98) for the cloning of the afamin gene (AAT00785) from human liver CDNA. Afamin is thought to have similar properties to human albumin, alpha-foetoprotein and vitamin b binding protein due to homology with these proteins. The gene encodes a mature protein of 6676 daltons without post-translational processing) ca. 87000 daltons with post-translational processing). The protein was isolated from human plasma by a conventional chromatographic methods. The protein can be used to ameliorate ischaemia-reperfusion injury, rheumatoid arthritis, ARDS, cardiopulmonary bypass, sepsis, toxic plasma substances released after inflammation, etc
 Human afamin or a variant and poly:nucleotide(s) encoding it - a human serum protein with activities in common with other members of this
 Gaps
 Human; rheumatoid arthritis; RA; diagnosis; RPI; RADF; detection; rheumatoid arthritis diagnostic feature; ERPI; synovial fluid; rheumatoid arthritis diagnostic protein isoform; screening; expression reference protein isoform; prognosis.
 ..
0
 Rheumatoid arthritis diagnostic protein isoform peptide #40.
 Score 20; DB 2; Length /;
Pred. No. 1.78+06;
 Wright SD;
 1; Mismatches
 Wurfel MM,
 (OXFO-) OXFORD GLYCOSCIENCES UK LTD.
 Townsend RR;
 Example 3; Page 45; 97pp; English.
 AAY41889 standard; peptide; 7 AA.
 99WO-GB000763.
 60.6%;
 98GB-00005477
 95WO-US004075
 94US-00222619
 Lichenstein HS, Lyons DE,
 (first entry)
 Local Similarity 57.1 les 4; Conservative
 (UYRQ) UNIV ROCKEFELLER.
 Parekh RB, Patel TP,
 WPI; 1999-571871/48
 WPI; 1995-358634/46.
 7
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1 FTFEYSR 7
 FTLKISR
 Sequence 7 AA;
 AMGE-) AMGEN
 Homo sapiens
 W09947925-A2
 15-MAR-1999;
 3-MAR-1998;
 09-DEC-1999
 31-MAR-1995;
 31-MAR-1994;
 23-SEP-1999.
 AAY41889;
 Query Match
 Best Loc
Matches
 RESULT 7
 AAY41889
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the mernod has been developed tor the utaginusts of indicate a two-dimensional array of features. The method can be used for screening, dimensional array of features. The method can be used for screening, dimensional array of features. The method can be used for screening, diagnosis and prognosis of RA in a subject or for monitoring the effect of an anti-RA drug or therapy administered to a subject. The method comprises: (a) analysing a sample of serum or plasma and optionally symovial fluid by two-dimensional electrophoresis, to generate a two-dimensional array of features; (b) identifying at least one chosen dimensional array of features; (c) identifying at least one chosen centure whose relative abundance correlates with the presence or absence of RA, and (c) comparing the abundance of each chosen feature in the cone or more persons without RA, where the relative abundance of the chosen feature or plasma from one or more persons without RA, where the relative abundance of the chosen feature or features in the sample indicates the presence or absence of RA in the subject. The method can also be used in clinical crudies for testing drugs for therapy of RA, for purification of RA-diagnostic facture (RADF), and for production of antibodies to compounds that promote or inhibit their activity, which are then used as CC RA drugs. Nucleic acid encoding RADFs can be used in gene therapy CC AAV12103 represent expression reference protein isoform peptides and AAV12103 represent expression reference protein isoform peptides and cused in the exemplification of the present invention
 Vascular Dementia; VD; VD-associated protein isoform; VPI; screening;
 Gaps
 been developed for the diagnosis of human rheumatoid
 ..
Diagnosis of human rheumatoid arthritis by two-dimensional
 Score 20; DB 2; Length 7;
Pred. No. 1.7e+06;
3; Mismatches 1; Indels
 Vascular dementia-associated protein isoform (VPI) 70
 diagnosis; prognosis; gene therapy.
 English
 60.6%; bcc-
42.9%; Pred
3; '
 ABB55870 standard; peptide; 7 AA.
 15-MAR-2000; 2000GB-00006285.
 14-MAR-2001; 2001WO-GB001106
 2000GB-00028734.
2000US-00724391.
 Disclosure; Page 18; 157pp;
 (first entry)
 3; Conservative
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The invention relates to screening, diagnosis or prognosis of Vascular Dementia (VD) in a subject comprising analysing body fluid from the subject by 2-dimensional (2-D) electrophoresis to generate a 2-D array of features containing at least one chosen feature whose relative abundance correlates with the presence, absence, stage or severity of VD or predicts the onset or course of VD, especially detecting in a sample of cerebrospinal fluid (CSF) from the subject one of 223 VD-associated protein isoforms (VPIS) (ABB55801-ABB56295) as fully defined in the specification. Detecting VD-associated features and VPI is useful for the screening, diagnosis or prognosis of VD, for determining the stage or severity of VD, for identifying a subject at risk of VD or for monitoring the effect of therapy administered to a subject having VD. Nucleic acids encoding a VPI or inhibiting the function of a VPI are useful for the treatment of VD and for gene therapy
 Vascular Dementia; VD; VD-associated protein isoform; VPI; screening;
 Gaps
 determing, diagnosis or prognosis of vascular dementia (VD), useful determining stage of VD and monitoring the effect of VD therapy, comprises analyzing body fluid by 2-dimensional electrophoresis for features correlated with VD.
comprises analyzing body fluid by 2-dimensional electrophoresis for features correlated with VD.
 ;
0
 60.6%; Score 20; DB 4; Length 7; 42.9%; Pred. No. 1.7e+06; ive 3; Mismatches 1; Indels
 Vascular dementia-associated protein isoform (VPI) 483.
 (OXFO-) OXFORD GLYCOSCIENCES UK LID.
 ີ່ວ
 diagnosis; prognosis; gene therapy
 Claim 6; Page 31; 151pp; English.
 ABB56283 standard; peptide; 7 AA
 Rohlff
 14-MAR-2001; 2001WO-GB001106.
 2000GB-00006285.
 24-NOV-2000; 2000GB-00028734.
28-NOV-2000; 2000US-00724391.
 (first entry)
 Conservative
 RB,
 Parekh
 WPI; 2001-557937/62,
 7
 : | :: | |
1 YTFELSR 7
 1 FTLKISR
 WO200169261-A2.
 Sequence 7 AA;
 15-MAR-2000;
 Herath HMAC,
 15-FEB-2002
 20-SEP-2001
 ABB56283;
 Homo
 RESULT 9
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The invention relates to screening, diagnosis or prognosis of Vascular Dementia (VD) in a subject comprising analysing body fluid from the subject by 2-dimensional (2-D) electrophoresis to generate a 2-D array of features containing at least one chosen feature whose relative abundance

Claim 6; Page 40; 151pp; English.

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predicts the onset or course of VD, especially detecting in a sample of cerebrospinal fluid (CSF) from the subject one of 223 VD-associated protein isoforms (VPIS) (ABB5801-ABB56295) as fully defined in the specification. Detecting VD-associated features and VPI is useful for the screening, diagnosis or prognosis of VD, for determining the stage or the effect of therapy administered to a subject at risk of VD or for monitoring the effect of therapy administered to a subject having VD. Nucleic acids encoding a VPI or inhibiting the function of a VPI are useful for the treatment of VD and for gene therapy
 ô
 The invention relates to screening, diagnosis or prognosis of Vascular Dementia (VD) in a subject comprising analysing body fluid from the subject by 2-dimensional (2-D) electrophoresis to generate a 2-D array of features containing at least one chosen feature whose relative abundance correlates with the presence, absence, stage or severity of VD or predicts the onset or course of VD, especially detecting in a sample of protein isoforms (VPIS) (ABBSS01-ABBS5025) as fully defined in the specification. Detecting VD-associated features and VPI is useful for the screening, diagnosis or prognosis of VD, for determining the stage or severity of VD, for identifying a subject at risk of VD or for monitoring the effect of therapy administered to a subject having VD. Nucleic acids encoding a VPI or inhibiting the function of a VPI are useful for the
 Screening, diagnosis or prognosis of vascular dementia (VD), useful for determining steage of VD and monitoring the effect of VD therapy, comprises analyzing body fluid by 2-dimensional electrophoresis for features correlated with VD.
 Vascular Dementia; VD; VD-associated protein isoform; VPI; screening;
 Gaps
correlates with the presence, absence, stage or severity of VD or
 ..
 Score 20; DB 4; Length 7; Pred. No. 1.7e+06; 3; Mismatches 1; Indels
 Vascular dementia-associated protein isoform (VPI) 181.
 LTD.
 diagnosis; prognosis; gene therapy.
 ΰ
 ABB55981 standard; peptide; 7 AA.
 Rohlff
 Claim 6; Page 33; 151pp; English.
 (OXFO-) OXFORD GLYCOSCIENCES UK
 60.6%;
 15-MAR-2000; 2000GB-0006285.
24-NOV-2000; 2000GB-00028734.
28-NOV-2000; 2000US-00724391.
 14-MAR-2001; 2001WO-GB001106.
 15-FEB-2002 (first entry)
 Conservative
 Herath HMAC, Parekh RB,
 WPI; 2001-557937/62.
 7
 Query Match
Best Local Similarity
 : | :: | |
YTFELSR
 1 FTLKISR
 Sequence 7 AA;
 WO200169261-A2
 Homo sapiens.
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 20-SEP-2001
 ABB55981;
 Matches
 RESULT 10
 ABB55981
8888888888888
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Query Match

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Best Loca Matches

AAU28602

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New schizophrenia associated protein isoforms and encoding nucleic acid molecules, useful for treatment, diagnosis and prognosis of schizophrenia and screening for potential drugs for treatment and new drug targets.
 The sequence represents a schizophrenia-associated protein isoform (SPI). These protein isoforms, e.g. SPI-206, SPI-238 and SPI-240 are detectable in cerebrospinal fluid, serum or plasma and are useful markers of schizophrenia. The sequences can be used for transment and diagnosis of schizophrenia, screening, prognosis, monitoring the results of therapy, identifying patients most likely to respond to a particular therapy and identification of new targets for drug treatment. SPI DNA is useful as a nucleic acid probe to detect the presence of nucleic acids or SPIs
 Schizophrenia-associated protein isoform; SPI; SPI-206; SPI-238; SPI-240; neuroleptic; gene therapy; cerebrospinal fluid; serum; plasma.
 Human; Bipolar Affective Disorder; BAD; Depression-Associated feature; DF; Depression-Associated protein isoform; DPI; Cerebro-spinal fluid;
 Schizophrenia-Associated Protein Isoform (SPI) peptide #198.
 Terrett JA,
 Score 20; DB 4; I
Pred. No. 1.7e+06;
 Depression-Associated Protein isoform DPI-208.
 3; Mismatches
 Rohlff C,
 Disclosure, Page 32; 148pp; English.
 (OXFO-) OXFORD GLYCOSCIENCES UK LTD.
 AAU26249 standard; peptide; 7 AA.
 AAU24969 standard; peptide; 7 AA.
 24-FBB-2000; 2000GB-00004415.
28-DEC-2000; 2000US-00750395.
 60.6%;
 23-FEB-2001; 2001WO-GB000792.
 18-DEC-2001 (first entry)
 3; Conservative
 WPI; 2001-570624/64.
 Query Match
Best Local Similarity
 1 FTLKISR 7
 1 YTFELSR 7
7
 7
 : | :: | |
1 YTFELSR
FTLKISR
 Sequence 7 AA;
 WO200162785-A2
 Homo sapiens
 Herath HMAC,
 18-DEC-2001
 30-AUG-2001
 AAU26249;
 Н
 AAU24969;
 RESULT 13
 RESULT 12
 AAU24969
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 The present invention relates to the identification of depression associated protein isoforms (DPIS), particularly the tryptic digest peptides of these proteins. Some of the DPIS (AAU28404-AAU28625) described are decreased in the cerebrospinal fluid (CSF) of BAD (Dipolar affective disorder) subjects, whilst other DPIS (AAU28626-AAU28887) are increased in BAD subjects, Also described are peptide sequences identified from DPI-45 and DPI-213 and the nucleic acid sequence they are encoded by. The sequences of the invention are useful for clinical screening, diagnosis, prognosis, therapy and prophylaxis of meuropsychiatric disorders e.g. BAD (also known as Dipolar mood disorder, Schizoaffective disorders, and unipolar affective disorders, and unipolar affective disorders. The present increase.
 .;
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 Novel nucleic acid encoding a protein associated with bipolar affective disorder, which is used for diagnosis, prophylaxis and therapy of neuropsychiatric disorders, such as bipolar affective disorder.
 Human; depression associated protein isoform; tryptic digest peptide; DPI; cerebrospinal fluid; CSF; BAD; bipolar affective disorder; neuropsychiatric disorder; bipolar mood disorder; neuroleptic; maniac-depressive illness; schizoaffective disorder.
 Gaps
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 Tyson KL;
 60.6%; Score 20; DB 4; Length 7; 42.9%; Pred. No. 1.7e+06; ive 3; Mismatches 1; Indels
 Score 20; DB 4; Lengtn ;
Pred. No. 1.7e+06;
1; Indels
 Terrett JA,
 treatment of VD and for gene therapy
 (OXFO-) OXFORD GLYCOSCIENCES UK LTD
 Rohlff C,
 Disclosure; Page 34; 153pp; English.
 AAU28602 standard; peptide; 7 AA.
 DPI tryptic digest peptide #199.
 2000GB-00004412.
2000GB-00030050.
2000US-0254830P.
 60.6%;
42.9%;
 23-FEB-2001; 2001WO-GB000786
 (first entry)
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 Herath HMAC, Parekh RB,
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 WPI; 2001-570626/64.
 Query Match
Best Local Similarity
Matches 3; Conserv
 1 FTLKISR 7
 Local Similarity
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YTFELSR
 Sequence 7 AA;
 WO200162787-A1
 Sequence 7 AA;
 24-FEB-2000;
 08-DEC-2000;
 12-DEC-2000;
 Homo sapiens
 30-AUG-2001
 03-JAN-2002
 nvention
 AAU28602;
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Tyson KL;

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Gaps

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Indels Length 7;

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The invention relates to methods and compositions for screening, diagnosis and prognosis of Schizophrenia. The method involves detecting the presence of Schizophrenia (SCH) Associated Features (SFS) and SCH Associated Protein Isoforms (SPIS) in samples, e.g. by electrophoresis, immunoassay or hybridisation assay. For diagnosing and monitoring SCH, studying the effectiveness of treatments and for identifying potential therapeutic agents. The method is used for (1) screening or diagnosis of SCH and the relative abundance of a least I chosen feature correlates to with the presence or absence of SCH; and (2) monitoring the effect of therapy administered to a subject with SCH and the relative abundance of at least I chosen feature which correlates with the severity of SCH. The expression and activity of the SFS, SPIS and related molecules (e.g. the disorder and the effectiveness of treatment and as targets to dentify and produce potential therapeutic agents for the treatment of SCH. The paucity of detectable neuralgic defects distinguishes consciurable in many cases. Consequently the identification and characterisation of manifestations of anatomical and biochemical changes have been identified in many cases. Consequently the identification and characterisation of constant and an analyzers.
 cellular and/or molecular causative defects and neuropathies are necessary for improved treatment of neuropsychiatric disorders. AAUIS114-AAUIS762 represent the amino acid sequences of schizophrenia-associated
 Diagnosing and monitoring Schizophrenia by detecting the presence of Schizophrenia Associated Features and Schizophrenia Associated Protein
 Query Match 60.6%; Score 20; DB 4; Length 7; Best Local Similarity 42.9%; Pred. No. 1.7e+06; Matches 3; Conservative 3; Mismatches 1; Indels
 isoforms used in the method of the invention
 Isoforms in samples of cerebrospinal fluid.
 (OXFO-) OXFORD GLYCOSCIENCES UK LTD.
 Rohlff C;
 Claim 6; Page 32; 160pp; English.
 23-FEB-2001; 2001WO-GB000783.
 24-FEB-2000; 2000GB-00004415.
28-DEC-2000; 2000US-00750395.
 Parekh RB,
 (first entry)
 7
 1 FTLKISR
 : | :: | |
1 YTFELSR
 Sequence 7 AA;
 Herath HMAC,
 30-AUG-2001
 Homo sapiens,
 08-FEB-2002
 ABB52190;
 RESULT 15
 ABB52190
 셤
 8
 The invention relates to a preparation comprising an isolated Bipolar Affected Disorder (BAD)-Associated Protein Isoform (DPIS). The DPI's are used to screen, diagnose or prognose of BAD or unipolar depression, identify a determine the stage or severity of BAD or unipolar depression, identify a cubject at risk of developing BAD or unipolar depression, identify a feffect of therapy in a subject. They are also used to screen for or identify agents that interact with a DPI. These agents, antibodies against the DPIs, and nucleic acids encoding the DPIs are used to treat or prevent BAD or unipolar depression. Diseases that can be treated are attention deficient disorder. A schizoaffective disorder, a bipolar or a trention deficient disorder. The DPIs are used in proteomics. The DPIs are used in proteomics. The DPIs are used in proteomics. The AD or unipolar depression overcomes the problems of using gene expression analysis, such as not being able to obtain central nervous present sequence is a DIP decreased in the CSF (cerebro-spinal fluid) of subjects having BAD
 ô
 Preparation for diagnosing or treating bipolar affected disorder (BAD) or unipolar depression, or for screening for modulators, comprises a BAD-associated protein isoform.
CSF; antidepressant; antimanic; nootropic; tranquiliser; neuroleptic; attention deficient disorder; schizoaffective disorder; unipolar affective disorder.
 Gaps
 Schizophrenia; neuroleptic; diagnostic; neuropsychiatric disorder; neurological disorder; neuropathy.
 0;
 60.6%; Score 20; DB 4; Length 7;
42.9%; Pred. No. 1.7e+06;
ive 3; Mismatches 1; Indels
 Schizophrenia-associated isoform peptide #198.
 (OXFO-) OXFORD GLYCOSCIENCES UK LTD.
 Rohlff C;
 Claim 8; Page 34; 163pp; English.
 AAU15313 standard; peptide; 7 AA.
 24-FEB-2000; 2000GB-0004412.
08-DEC-2000; 2000GB-00030050.
12-DEC-2000; 2000US-0254830P.
 23-FEB-2001; 2001WO-GB000791
 Query Match
Best Local Similarity 42.>%,
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 (first entry)
 Herath HMAC, Parekh RB,
 WPI; 2001-582081/65.
 1 FILKISR 7
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YTFELSR 7
 WO200163294-A2
 Sequence 7 AA;
 WO200163293-A2
 Homo sapiens.
 Homo sapiens.
 30-AUG-2001
 24-OCT-2001
 AAU15313;
 RESULT 14
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Gaps
 digest;
 Human, neuroprotective, nootropic, gene therapy, vaccine, Alzheimer's disease, Alzheimer's Disease-Associated Feature, AF, Alzheimer's Disease-Associated Protein Isoform, API, tryptic digrexpression Reference Protein Isoform; ERPI; proteolysis.
0
 Human API-146 tryptic digest peptide #1.
 ABB52190 standard; peptide; 7 AA.
 WO200175454-A2
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Search completed: November 4, 2004, 07:06:25 Job time : 154 secs

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0; Gaps

60.6%; Score 20; DB 4; Length 7; 57.1%; Pred. No. 1.7e+06; ive 1; Mismatches 2; Indels

Query Match
Best Local Similarity 57.1
Matches 4; Conservative

1 FTLKISR 7 || : || 1 FTFEYSR 7

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US-09-791-378-198
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 4, 2004, 07:09:49; Search time 140 Seconds (without alignments) 17.661 Million cell updates/sec
 Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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GenCore version 5.1.6
(c) 1993 - 2004 Compugen Ltd.
 Total number of hits satisfying chosen parameters:
 1566620 segs, 353225886 residues
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 Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
 OM protein - protein search, using sw model
 BLOSUM62
Gapop 10.0 , Gapext 0.5
 US-09-712-819D-6
33
1 FTLKISR 7
 November
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 Query
 Title:
Perfect score:
 Scoring table:
 Score
 Minimum DB
Maximum DB
 Sequence:
 Searched:
 Database
 Run on:
 Result
No.
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ð 8 Sequence 198, App Sequence 7, Appli Sequence 205, App Sequence 370, App Sequence 145, App Sequence 145, App Sequence 198, App Sequence 105, App Sequence 105, App Sequence 52, App Sequence 52, App Sequence 154, App Sequence 164, App Sequence 164, App Sequence 164, App Sequence 164, App Description US-09-791-393-145 US-09-791-389-145 US-09-791-389-145 US-09-791-389-145 US-10-264-309-131 US-10-264-309-460 US-10-601-100-105 US-10-700-340-52 US-10-700-340-154 US-09-791-378-198 US-09-998-909-7 US-09-826-290-205 US-09-826-290-370 DB Length

600.6 600.6 600.6 600.6 600.6 600.6 600.6 600.6

| Semience 164. Ann | 7               | - 0           | i ai            | 30,         | equence     | H  | Φ.        |                 | -         | 8       | 0)             | ω           | Sequence 396, App | 7           | 35    | equence 35 | 35    | equence 20. | equence 43. | equence     | equence 35, | equence 96,      | 131          | 39    | equence 19   | 35            | equence 35     | equence 35 | emience 35 | equence 96. | Sequence 131, App |  |
|-------------------|-----------------|---------------|-----------------|-------------|-------------|----|-----------|-----------------|-----------|---------|----------------|-------------|-------------------|-------------|-------|------------|-------|-------------|-------------|-------------|-------------|------------------|--------------|-------|--------------|---------------|----------------|------------|------------|-------------|-------------------|--|
| US-09-996-265-164 | US-10-162-497-7 | US-10-461-863 | US-10-105-930-3 | US-10-043-5 | US-10-020-3 |    | 966-60-SD | US-10-044-034-1 | US-10-461 | -963A-8 | US-10-211-994- | 0-020-354-8 | 586-6             | 9-989-789-1 | 9-989 | -789-3     | 9-989 | 3-796-848A- | 9-844-5     | 9-808-387-4 | 9-966-6     | US-09-996-288-96 | 9-996-288-13 | 66-60 | 19-990-186-1 | -09-990-186-3 | -09-990-186-35 | -186-35    | -996-265-3 | 5-          | 6-265-1           |  |
| 10                | 14              | 15            | 14              | 14          | 14          | σ  | 10        | 13              | 15        | σ       | 74             | 14          | σ                 | σ           | σ     | σ          | σ     | σι          | σ           | σı          | σ           | σ                | σ            | 70    | 10           | 10            | 10             | 10         | 10         | 10          | 10                |  |
| 7                 | 7               | 7             | 9               | 9           | 9           | 7  | 7         | 7               | 7         | Ò       | 9              | 9           | 7                 | 7           | 7     | 7          | 7     | 7           | 7           | 7           | 7           | 7                | 7            | 7     | 7            | 7             | 7              | 7          | 7          | 7           | 7                 |  |
| 54.5              | 4.              | 4.            | ᅻ               | i.          | ä           | į. | ÷         |                 | i.        |         |                | œ.          | 48.5              |             | œ.    |            | ω,    | œ.          |             |             |             |                  |              |       | 48.5         | œ.            | œ.             | œ          | ώ.         |             | ω.                |  |
| 18                | 18              | 18            | 17              | 17          | 17          | 17 | 17        | 17              | 17        | 16      | 16             | 16          | 16                | 16          | 16    | 16         | 16    | 16          | 16          | 16          | 16          | 16               | 16           | 16    | 16           | 16            | 16             | 16         | 16         | 16          | 16                |  |
| 14                | 15              | 16            | 17              | 18          | 19          | 20 | 21        | 22              | 23        | 24      | 25             | 56          | 27                | 28          | 29    | 30         | 31    | 32          | 33          | 34          | 32          | 36               | 37           | 38    | ტ<br>ზ       | 40            | 41             | 42         | 43         | 44          | 45                |  |

#### ALIGNMENTS

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Sequence 198, Application US/09791378

Patent No. US20020142303A1

GENUERAL INFORMATION:
GENUERAL INFORMATION:
GENUERAL INFORMATION:
TITLE OF INVENTION: SCHIZOPHERNIA
TITLE OF INVENTION: SCHIZOPHERNIA
TITLE OF INVENTION: SCHIZOPHERNIA
FILE REPERENCE: 9105-061-999
CURRENT APPLICATION NUMBER: US/09/791,378
CURRENT APPLICATION NUMBER: 09/750,395
PRIOR FILING DATE: 2000-12-28
PRIOR FILING DATE: 2000-12-28
NUMBER OF SEQ ID NOS: 677
SUPPRIOR FILING DATE: 2000-13-06
SEQ ID NO 198
SEQ ID NO 198
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Pred. No. 1.4e+06;
3; Mismatches 1; Indels
 RESULT 2
US-09-998-909-7
Sequence 7, Application US/09998909
Patent No. US20020164664A1
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APPLICANT: Hlavaty, John
 h 60.6%;
Similarity 42.9%;
3; Conservative 3
 ; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-791-378-198
 Query Match
Best Local Similarity
Matches 3; Conserv
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YTFELSR 7
 1 FTLKISR 7
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Gaps

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1 YTFELSR
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 8
 APPLICANT: Kimmel, Lida H.
APPLICANT: Realesh Bhikhu
APPLICANT: Porter, David M.
APPLICANT: Porter, David M.
APPLICANT: Porter, David M.
APPLICANT: Stiber, B. Michael
APPLICANT: White, Frost
APPLICANT: White, Frost
APPLICANT: White, Frost
APPLICANT: White, Frost
APPLICANT: Williams, Stephen A.
TITLE OF INVENTION: Uses Therefor, Including Diagnosis and Treatment of TITLE OF INVENTION: Uses Therefor, Including Diagnosis and Treatment of TITLE OF INVENTION: MUMBER: US/09/826,290
CURRENT APPLICATION NUMBER: US 60/194,504
PRIOR APPLICATION NUMBER: US 60/194,504
PRIOR FILING DATE: 2000-01-28
PRIOR APPLICATION NUMBER: US 60/253,647
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 Gaps
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 .,
APPLICANT: Briggman, Joseph
TITLE OF INVENTION: Detection and Treatment of Prostate Cancer
FILE REFERENCE: MTP-027
CURRENT APPLICATION NUMBER: US/09/998,909
CURRENT FILING DATE: 2001-11-30
PRIOR APPLICATION NUMBER: US 60/250,284
PRIOR FILING DATE: 2000-11-30
NUMBER OF SEQ ID NOS: 14
SOFTWARE: Patentin version 3.0
SEQ ID NO?
 APPLICANT: Durham, L.Kathryn
APPLICANT: Priedman, David L.
APPLICANT: Friedman, David L.
APPLICANT: Herath, Herath Mudiyanselage Athula Chandrasiri
APPLICANT: Kimmel, Lida H.
APPLICANT: Parekh, Rajesh Bhikhu
APPLICANT: Potter, David M.
APPLICANT: Rohlff Christian
APPLICANT: Silber, B. Michael
APPLICANT: Stiger, Thomas R.
APPLICANT: Suderland, P. Trey
APPLICANT: Townsend, Robert Reid
 Query Match
60.6%; Score 20; DB 9; Length 7;
Best Local Similarity 57.1%; Pred. No. 1.4e+06;
Matches 4; Conservative 1; Mismatches 2; Indels
 Score 20; DB 9; Length 7; Pred. No. 1.4e+06; 3; Mismatches 1; Indels
 NUMBER OF SEQ ID NOS: 492
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 205
LENGTH: 7
 Sequence 370, Application US/09826290 Patent No. US20020164668A1
 Sequence 205, Application US/09826290 Patent No. US20020164668A1 GENERAL INFORMATION:
 Query Match 60.6%;
Best Local Similarity 42.9%;
Matches 3; Conservative
 TYPE: PRT
GORGANISM: Homo sapiens
US-09-998-909-7
 TYPE: PRT
CORGANISM: homo sapien
US-09-826-290-205
 ||: ||
1 FTFEYSR 7
 1 FTLKISR 7
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1 YTFELSR 7
 1 FTLKISR 7
 US-09-826-290-370
 RESULT 3
US-09-826-290-205
 RESULT 4
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us-09-712-819d-6.closed.rapb

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APPLICANT: WILLIAMS, STEPHEN A.
TITLE OF INVENTION: NUCLEIC ACID MOLECULES, POLYPEPTIDES AND USES THEREFOR,
TITLE OF INVENTION: NUCLEIC ACID MOLECULES, POLYPEPTIDES AND USES THEREFOR,
TITLE OF INVENTION: NUCLEIC ACID MOLECULES, POLYPEPTIDES AND USES THEREFOR,
TITLE OF INVENTION: NUMBER: US/10/264,309
CURRENT APPLICATION NUMBER: US/10/264,309
PRIOR APPLICATION NUMBER: 60/326,708
PRIOR APPLICATION DATE: 2001-10-03
NUMBER OF SEQ ID NOS: 491
SOFTWARE: PATENTIN Version 2.1
 APPLICANT: WHITE, W. FROST
APPLICANT: WILLIAMS, STEPHEN A.
TITLE OF INVENTION: NUCLEIC ACID MOLECULES, POLYPEPTIDES AND USES THEREFOR,
TITLE OF INVENTION: INCLUDING DIAGNOSIS AND TREATMENT OF ALZHEIMER'S DISEASE
FILE REFERENCE: POA-002.01
CURRENT APPLICATION NUMBER: US/10/264,309
CURRENT FILIAG DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/326,708
PRIOR APPLICATION NUMBER: 60/326,708
NUMBER OF SEQ ID NOS: 491
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 Score 20; DB 15; Length 7; Pred. No. 1.4e+06; 1; Mismatches 2; Indels
 Sequence 131, Application US/10264309
Publication No. US20040022794A1
GENERAL INFORMATION:
 Sequence 460, Application US/10264309
Publication No. US20040022794A1
PUBLICANT: DURHAM, D. KATHRXN
 STIGER, THOMAS R.
SUNDERLAND, P. TREY
TOWNSEND, ROBERT R.
WHITE, W. FROST
 APPLICANT: DURHAM, L. KATHRYN
APPLICANT: FRIEDMAN, DAVID L.
APPLICANT: HERATH HERATH
APPLICANT: KIMMEL, LIDA H.
APPLICANT: PAREKH, RAJESH B.
APPLICANT: POTTER, DAVID M.
APPLICANT: ROHLFF, CHRISTIAN
 POTTER, DAVID M.
ROHLFF, CHRISTIAN
SILBER, B. MICHAEL
SNYDER, PETER J.
SOARES, HOLLY D.
 SILBER, B. MICHAEL
SNYDER, PETER J.
SOARES, HOLLY D.
STIGER, THOMAS R.
SUNDERLAND, P. TREY
TOWNSEND, ROBERT R.
 60.6%;
 DURHAM, L. KATHRYN
FRIEDMAN, DAVID L.
HERATH, HERATH
KIMMEL, LIDA H.
PAREKH, RAJESH B.
 POTTER, DAVID M. ROHLFF, CHRISTIAN
 Query Match 60.6
Best Local Similarity 57.1
Matches 4; Conservative
 TYPE: PRT
CRGANISM: Homo sapiens
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 US-10-264-309-460
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 APPLICANT:
 g
 ò
 RESULT 6
15-09-791-389-145

Sequence 145, Application US/09791389

Publication No. US20030032773A1

GENERAL INFORMATION:
APPLICANT: Herath, Herath Mudiyanselage Athula Chandrasiri
APPLICANT: Parekh, Rajesh Bhikhu
APPLICANT: Parekh, Rajesh Bhikhu
APPLICANT: Terrett, Jonathan Alexander
APPLICANT: Treson, Kerry Louise
TITLE OF INVENTION: Diagnosis and Their Use for
TITLE OF INVENTION: Diagnosis and Treatment of Bipolar Affective Disorder (BAD)
TITLE OF INVENTION: and Unipolar Depression
FILE REFERENCE: 2543-1-01 N2
CURRENT APPLICATION NUMBER: US/09/791,389
CURRENT FILING DATE: 2001-02-23

PRIOR APPLICATION NUMBER: GB 0030050.9
PRIOR FILING DATE: 2000-12-08

PRIOR FILING DATE: 2000-12-08

PRIOR FILING DATE: 2000-12-08

PRIOR PILING DATE: 2000-12-08

PRIOR FILING DATE: 2000-12-08

PRIOR PILING DATE: 2000-12-08

PRIOR FILING DATE: 2000-12-08

SOFTHARE: FastERQ for Windows Version 4.0

SOFTHARE: FastERQ for Windows Version 4.0
 APPLICANT: Parekh, Rajesh
TITLE OF INVENTION: PROTEINS, GENES AND THEIR USE FOR DIAGNOSIS AND TREATMENT OF
TITLE OF INVENTION: SCHIZOPHRENIA
TITLE OF INVENTION: SCHIZOPHRENIA
FILE REFERENCE: 9105-060-999
CURRENT APPLICATION NUMBER: US/09/791,377
CURRENT FILING DATE: 2000-12-28
NUMBER OF SEQ ID NOS: 677
SOFTWARE: Patentin version 3.0
SOFTWARE: Patentin version 3.0
LENGTH: 7
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 60.6%; Score 20; DB 10; Length 7; 42.9%; Pred. No. 1.46+06; Live 3; Mismatches 1; Indels
 60.6%; Score 20; DB 11; Length 7; 42.9%; Pred. No. 1.4e+06; ive 3; Mismatches 1; Indels
 Sequence 198, Application US/09791377
Publication No. US20040110938A1
GENERAL INFORMATION:
 3; Conservative
 Conservative
 ; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-791-377-198
 TYPE: PRT
CRGANISM: homo sapien
US-09-791-389-145
1 FTLKISR 7
 : | :: | |
1 YTFELSR 7
 Query Match
Best Local Similarity
Matches 3; Conserv
 Query Match
Best Local Similarity
Matches 3; Conserv
 1 FTLKISR 7
 : | :: | |
1 YTFELSR 7
 1 FTLKISR 7
 :| ::||
1 YTFELSR 7
 US-09-791-377-198
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USACUENCE 154, Application US/10700340

Sequence 154, Application US/10700340

Sequence 154, Application US/10700340

Publication No. US20040203023A1

GENERAL INFORMATION:
TITLE OF INVENTION: CANCER

PRIOR FILING DATE: 2003-11-03

PRIOR FILING DATE: 2001-05-02

PRIOR PLING DATE: 2001-06-12

PRIOR PLING DATE: 2001-08-14

PRIOR PLING DATE: 2001-08-14

PRIOR PLING DATE: 2001-08-16

PRIOR PLING DATE: 2001-11-22

WUMBER OF SEQ ID NOS: 156

SOFTWARE: PatentIn version 3.1

SEQ ID NO 154
 Sequence 164, Application US/0996288
Sequence 164, Application US/0996288
Sequence 164, Application US/0996288
Patent No. US20020177126A1
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Vouc, Koenig
APPLICANT: Leslie, Johnson
APPLICANT: Leslie, Johnson
APPLICANT: Leslie, Johnson
APPLICANT: Using OF INVENTION: and Treatment
TITLE OF INVENTION: and Treatment
FILE REFERENCE: 10271-047-999
CURRENT APPLICATION NUMBER: US/09/996,288
CURRENT FILING DATE: 2001-11-28
NUMBER OF SEQ ID NOS: 259
SOUTHARR: PatentIn version 3.1
INNET OF INVENTION OF INVE
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 Length 7;
 Length 7;
 Score 20; DB 17; Length 7;
Pred. No. 1.4e+06;
1; Mismatches 2; Indels
 60.6%; Score 20; DB 17; L
42.9%; Pred. No. 1.4e+06;
live 3; Mismatches 1;
 Query Match 60.6%;
Best Local Similarity 57.1%;
Matches 4; Conservative
 Query Match
Best Local Similarity 42.9
Matches 3; Conservative
 ; ORGANISM: Homo sapiens
US-10-700-340-154
 TYPE: PRT
CORGANISM: Homo sapiens
US-10-700-340-52
 1 FTLKISR 7
 : | :: | |
1 YTFELSR 7
 1 FTLKISR 7
 1 FTFEYSR 7
 RESULT 13
US-09-996-288-164
 RESULT 12
US-10-700-340-154
SEQ ID NO 52
LENGTH: 7
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 SUBSECTION TREATMENT OF BREATHING CHANGINGS AND TREATMENT OF BREATHILD OF INVENTION: PROTEINS, GENES AND THEIR USE FOR DIAGNOSIS AND TREATMENT OF BREATHILD OF INVENTION: CANCER TITLE OF INVENTION: CANCER CURRENT APPLICATION NUMBER: US/10/700,340

CURRENT FILING DATE: 2003-11-03

PRIOR APPLICATION NUMBER: GB0110790.3

PRIOR PLILING DATE: 2001-05-02

PRIOR PLILING DATE: 2001-05-02

PRIOR PAPLICATION NUMBER: GB0118385.4

PRIOR FILING DATE: 2001-07-27

PRIOR PAPLICATION NUMBER: GB0119791.2

PRIOR PLING DATE: 2001-08-14

PRIOR PLING DATE: 2001-08-16

PRIOR PAPLICATION NUMBER: GB0120045.0

PRIOR PRILING DATE: 2001-08-16

PRIOR PLING DATE: 2001-11-22

NUMBER OF SEQ ID NOS: 156

SOFTWARE: PALENTIN VERSION 3.1
 Sequence 105, Application US/10601100

Sequence 105, Application US/10601100

Sequence 105, Application No. US20040072261A1

GENERAL INFORMATION:

APPLICATION NO. US20040072261A1

GENERAL INFORMATION:

TITLE OF INVENTION: Method for the Diagnosis and Differential Diagnosis of TITLE OF INVENTION: Method for the Diagnosis and Differential Diagnosis of TITLE OF INVENTION: Method for 103 NorDSC 10
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0
 Query Match 60.6%; Score 20; DB 15; Length 7; Best Local Similarity 42.9%; Pred. No. 1.4e+06; Matches 3; Conservative 3; Mismatches 1; Indels
 60.6%; Score 20; DB 15; Length 7; 42.9%; Pred. No. 1.4e+06;
 1; Indels
 3; Mismatches
 US-10-700-340-52; Sequence 52, Application US/10700340; Publication No. US20040203023A1; GENERAL INFORMATION:
 SOFTWARE: Patentin Version 2.1 SEQ ID NO 460 LENGTH: 7
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Best Local Similarity 42.5.
 ; ORGANISM: homo sapiens US-10-601-100-105
 ; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-264-309-460
 1 FTLKISR 7
 : | :: | |
1 YTFELSR 7
 1 FILKISR 7
 : | :: | |
1 YTFELSR 7
 US-10-601-100-105
 TYPE: PRT
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i; Indels

Score 18; DB 14; Length 7; Pred. No. 1.4e+06; 2; Mismatches 1; Indels

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Search completed: November 4, 2004, 07:21:29 Job time: 141 secs
 54.5%;
 Query Match
Best Local Similarity 50.0
Matches 3; Conservative
 1 FILKIS 6
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2 YTMKYS 7
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 g
 RESULT 14

US-09-96-265-164

US-09-96-265-164

SQUENCE 164, Application US/0996265

Publication No. US20030091584A1

GENERAL INFORMATION:
GENERAL INFORMATION:
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Leslie, Johnson
TITLE OF INVENTION: Methods of Adminstering/Dosing Anti-RSV Antibodies for Prophylaxi
TITLE OF INVENTION: and Treatment
FILE REFERENCE: 10271-048-999
CURRENT APPLICATION WUMBER: US/09/996,265
CURRENT APPLICATION WUMBER: US/09/996,265
SOUTHER EST STATES 2011-11-28
NUMBER OF SEQ ID NOS: 259
SOUTHER EST PRINT PRINT OF THE STATES AND THE SEQ ID NO 164

LENGTH: 7

LENGTH: 7
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 0;
 Sequence 78, Application US/10162497

Fublication No. US20030158398A1

GENERAL INPORMATION:

APPLICANT: Chen, H.

APPLICANT: CFRENCY.

TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING

TITLE OF INVENTION: AND TREATING CHROMOSOME-18p RELATED DISORDERS

FILE REFERENCE: 7853-138

CURRENT APPLICATION NUMBER: US/10/162,497

CURRENT PILING DATE: 2002-06-04

FRIOR APPLICATION NUMBER: 09/268,992

PRIOR FILING DATE: 1999-03-16

PRIOR FILING DATE: 1999-03-16

PRIOR PLING DATE: 1999-01-22

PRIOR PLING DATE: 1999-01-22

PRIOR PLING DATE: 1999-01-22

PRIOR FILING DATE: 1999-03-16

PRIOR PRIOR FILING DATE: 1999-03-16

PRIOR PRIOR FILING DATE: 1999-03-16

PRIOR PRIOR FILING DATE: 1999-03-16

PRIOR PRIOR FILING DATE: 1999-03-16

PRIOR FILING DATE: 1999-03-16

PRIOR PRIOR FILING DATE: 1999-03-16

PRIOR PRIOR FILING DATE: 1998-03-16

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 Score 18; DB 10; Length 7;
Pred. No. 1.4e+06;
2; Mismatches 0; Indels
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Best Local Similarity 60.0
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Matches 3; Conservative
; ORGANISM: Homo sapiens
US-09-996-288-164
 ; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-996-265-164
 TYPE: PRT
ORGANISM: Homo sapiens
US-10-162-497-78
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2 TMKLS 6
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TMKLS 6
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 US-10-162-497-78
 SEQ ID NO 78
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 Sequence 33,
 Description
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US-07-977-696C-71

US-08-472-281A-33

US-08-477-989B-33

US-08-477-989B-33

US-08-563-222C-80

US-09-563-222C-114

US-09-564-180C-155

US-09-254-180C-155

US-09-254-180C-155

US-09-254-180C-155

US-09-254-180C-155

US-09-254-180C-155

US-09-254-180C-155

US-09-254-180C-157

US-09-264-180C-157

US-09-264-180C-158

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US-09-264-180C-158

US-09-264-180C-159

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US-09-840-459-30
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Maximum Match 100%
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Gapop 10.0 , Gapext 0.5
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Match Length
 1 FTLKISR 7
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 100.0
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 100.0
 Title:
Perfect score:
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 Score
 Minimum DB
Maximum DB
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 Searched:
 Database
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 Result
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Sequence 33, Application US/0847787B
Fatent No. 5730979
GENERAL INFORMATION:
Fatent No. 5730979
GENERAL INFORMATION:
Fatent No. 5730979
GENERAL INFORMATION:
FAPLICANT:
FAPLICAN
 24, Appl
25, Appl
27, Appl
27, Appl
28, Appl
29, Appl
30, Appl
37, Appl
151, App
 Sequence 151, Age Sequence 15, Age Sequence 15, Age Sequence 15, Age Sequence 15, Age Sequence 151, Ag
 Sequence
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US-09-497-625A-21

US-09-497-625A-22

US-09-497-655A-23

US-09-497-655A-25

US-09-497-655A-26

US-09-497-655A-26

US-09-497-655A-26

US-09-497-655A-29

US-09-497-625A-29

US-09-497-625A-29

US-09-497-625A-29

US-08-481-13B-151

US-08-477-444B-151

US-08-472-78BA-15

US-08-472-78BA-15

US-08-472-78BA-15

US-08-472-78BA-15

US-08-472-78BA-15

US-08-472-78BA-15

US-08-472-78BA-15

US-08-472-78BA-15

US-08-472-78BA-15
 ALIGNMENTS
 COMPUTER: 3.5 INCN GISKELTE COMPUTER: 1EM PS/2
OPERATING SYSTEM: MS-DOS SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/477,877B
FILING DATE: 07-UN-1995
CLASSIPRICATION 14.4
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/407,009
FILING DATE: 29-MAR-1995
APPLICATION NUMBER: 08/119,032
FILING DATE: 09-SEP-1993
APPLICATION NUMBER: 08/119,032
FILING DATE: 09-SEP-1993
APPLICATION NUMBER: 08/027,008
 FILING DATE: 05-MAR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Olstein, Elliot M.
REGISTRATION NUMBER: 24,025
REFERENCE/DOCKET NUMBER: 61750-146
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-994-1700
 inch diskette
 TELEFAX: 201-994-1744
INFORMATION FOR SEQ ID NO: 33:
 STRANDEDNESS:

TOPOLOGY: linear

MOLECULE TYPE: polypeptide
US-08-477-8778-33
 STAID.
COUNTRY: U.S.A.
ZIP. 07068
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch
 SEQUENCE CHARACTERISTICS:
LENGTH: 32 amino acids
TYPE: amino acid
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1000.00
1000.00
1000.00
1000.00
1000.00
1000.00
 US-08-477-877B-33
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Length 32;

DB 1;

Score 33;

100.0%;

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Sequence 33, Application US/08472281A
Sequence 33, Application US/08472281A
Patent No. 581731
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Bazin, Herv
APPLICANT: Latinne, Dominique
TITTE OF INVENTION: LO-CD2a Antibody and Uses Thereof for Inhibiting T-Cell Activ
NUMBER OF SEQUENCES: 96
CORRESPONDENCE ADDRESS:
ADDRESSEE: Carclla, Byrne, Bain, Gilfillan,
ADDRESSEE: Cecchi, Stewart & Olstein
STREET: 6 Becker Farm Road
CITY: Roseland
STATE: New Jersey
 ..
 100.0%; Score 33; DB 1; Length 32; 100.0%; Pred. No. 1.6;
 Indels
 COMPUTER READABLE FORM:

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS 5.0

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATE:

APPLICATION NUMBER: US/08/129,930B

FILING DATE: September 30, 1993

CLASSIFICATION: 424

ATTORNEY/AGBNT INFORMATION:

NAME: Amzel Ph.D., Viviana

REGISTRATION NUMBER: 30,930

REPERBONE: (510) 521-1333

TELEFORMUNICATION INFORMATION:

TELECOMMUNICATION INFORMATION:

TELEFORM (510) 521-1333

TELEFORM (510) 521-3541

ITLE OF INVENTION: Diagnostic Vaccination and TITLE OF INVENTION: Therapeutic Methods NUMBER OF SEQUENCES: 96
NUMBER OF SEQUENCES: 96
ADDRESSEE: V. AMZEL & ASSOC.
STREET: 2055 No. 5804187th Broadway, Suite 201
CITY: Walnut Creek
STATE: California
 0; Mismatches
 COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch diskette
COMPUTER: IBM PS/2
OPERATING SYSTEM: MS-DOS
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/472,281A
FILING DATE: 07-UN-1995
CLASSIFICATION: 424
 PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/407,009
FILING DATE: 29-MAR-1995
 Query Match
Best Local Similarity 100.
Matches 7; Conservative
 ; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-129-930B-71
 15 FTLKISR 21
 1 FTLKISR 7
 COUNTRY: U.ZIP: 07068
 RESULT 4
US-08-472-281A-33
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 MS-07-97-696C-71.

Sequence 71, Application US/0797596C

Sequence 71, Application US/0797596C

Patent No. 5792852

Patent No. 5792852

APPLICANT: do Couto, Fernando J.R.

APPLICANT: do Couto, Fernando J.R.

APPLICANT: Peterson Dr., Roberto L.

APPLICANT: Peterson Dr., Bdray A.

ITILE OF INVENTION: Analogue Peptides with Specificity

ITILE OF INVENTION: for Carcinomas and Kit and Diagnostic Vaccination

ITILE OF INVENTION: and Therapeutic Methods.

NUMBER OF SEQUENCES: 81

CORRESPONDENCE ADDRESS: 61400 AND CORRE
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 100.0%; Score 33; DB 1; Length 32; 100.0%; Pred. No. 1.6;
 Indels
 Indels
 Sequence 71, Application US/08129930B
Patent No. 5804187
GENERAL INFORMATION
GENERAL INFORMATION
APPLICANT: Geriani Dr., Fernando J.R.
APPLICANT: Peterson Dr., Jerry A.
APPLICANT: Pedian Dr., Squardo A.
APPLICANT: Padlan Dr., Eduardo A.
ITILE OF INVENTION: Analogue Peptides With Broad
TITLE OF INVENTION: Carcinoma Specificity, and Kit and
 ZIP: 90071
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IEM PC compatible
COMPTUTE: IEM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS 5.0
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/977,696C
FILING DATE: 11-16-92
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Amzel Ph.D., Viviana
REGISTRATION NUMBER: 30,930
 STATE: California
COMPIENT: USA
ZIP: 90071
 0
 100.0%; Pred. No. 1.6; ative 0; Mismatches
 Mismatches
 REGISTRATION NUMBER: 30,930
REPERBORG/DOCKET NUMBER: P66 38227
TELECOMMUNICATION:
TELEPHONE: (510) 748-6868
 ·,
 TELEPHONE: (510) / 18-6688
 TELEX: n.a.
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 32 amino acids
TYPE: amino acids
 Conservative
 Conservative
 MOLECULE TYPE: peptide
 Query Match
Best Local Similarity
7; Conserve
 linear
 15 FTLKISR 21
 FTLKISR 7
 15 FTLKIŚR 21
 Best Local Similarity
 FTLKISR 7
 TOPOLOGY:
 US-08-129-930B-71
 US-07-977-696C-71
 Matches
 RESULT 3
 RESULT 2
```

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Gaps
 ..
 APPLICANT: do Couto Dr., Fernando J.R.
APPLICANT: deriani Dr., Fernando J.R.
APPLICANT: Ceriani Dr., Poberto L.
APPLICANT: Pedran Dr., Jerry A.
APPLICANT: Padlan Dr., Eduardo A.
TITLE OF INVENTION: Analogue Peptides With Broad
TITLE OF INVENTION: Carcinoma Specificity, and Kit and
TITLE OF INVENTION: Therapeutic Methods
TITLE OF SEQUENCES: 96
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pretty, Schroeder & Poplawski
 100.0%; Score 33; DB 2; Length 32; 100.0%; Pred. No. 1.6; ative 0; Mismatches 0; Indels
 ADDRESSEE: Pretty, Schroeder & Poplawski STREET: 444 South Flower St., 19th Floor CITY: Los Angeles STATE: California COUNTRY: USA
 ; Sequence 71, Application US/08976288A; Patent No. 6315997
 TELECUPING: 201-994-1, CTELEPHONE: 201-994-1744
; INFORMATION FOR SEQ ID NO: 33: SEQUENCE CHARACTERISTICS: 1.ENGTH: 32 amino acids
 STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: polypeptide
 TELEPHONE: (213, 789-4210
 Query Match
Best Local Similarity 100..
 32 amino acids
 TELEX: n.a. INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
 ; MOLECULE TYPE: peptide US-08-976-288A-71
 15 FTLKISR 21
 1 FTLKISR 7
 amino acid
 90071
 US-08-477-989B-33
 RESULT 6
US-08-976-288A-71
 TOPOLOGY:
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 Gaps
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 Score 33; DB 2; Length 32;
Pred. No. 1.6;
 0; Indels
 APPLICANT: White-Schaff, Mary
TITLE OF INVENTION: LO-CD2a Antibody and Uses
TITLE OF INVENTION: LO-CD2a Antibody and Uses
TITLE OF INVENTION: T-CS11 Activation and
TITLE OF INVENTION: Proliferation
NUMBER OF SEQUENCES: 96
CORRESPONDENCE: 96
CORRESPER: Carella, Byrne, Bain, Gilfillan,
ADDRESSEE: Carella, Stewart & Olstein
STREET: 6 Becker Farm Road
CITY: Roseland
 100.0%; Score 33; LL
100.0%; Pred. No. 1.6
rive 0; Mismatches
 FILING DATE: 09-113/022

APPLICATION WHERE: 08/027,008
FILING DATE: 05-MAR-1993
ATTORNEY/AGENT INFORMATION:
NAME: 01stein, Elliot M.
REGISTRATION NUMBER: 24,025
REFERENCE/DOCKET NUMBER: 61750-142
TELEPHONE: 201-994-1700
TELEPHONE: 201-994-1700
TELEPRAX: 201-994-1744
INFORMATION FOR ESQ ID NO: 33:
SEQUENCE CHARACTERISTICS:
LENGTH: 32 amino acids
FTRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: polypeptide
 COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch diskette
COMPUTER: IBM PS/2
OPERATING SYSTEM: MS-DOS
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/477,989B
FILING DATE: 07-JUN-1995
CLASSIFICATION NUMBER: 08/407,009
FILING DATE: 29-MAR.1995
APPLICATION NUMBER: 08/19,032
APPLICATION NUMBER: 08/19,032
APPLICATION NUMBER: 08/19,032
APPLICATION NUMBER: 08/19,032
APPLICATION NUMBER: 08/027,008
FILING DATE: 09-SEP-1993
APPLICATION NUMBER: 08/027,008
FILING DATE: 05-MAR.1993
APPLICATION NUMBER: 29/027,008
FILING DATE: 05-MAR.1993
APPLICATION NUMBER: 24,025
REGISTRATION NUMBER: 24,025
REFERENCE/DOCKET NUMBER: 24,025
 Sequence 33, Application US/08477989B
Patent No. 5951983
 GENERAL INFORMATION:
APPLICANT: Bazin, Herv
APPLICANT: Latinne, Dominique
APPLICANT: Kaplan, Ruth
APPLICANT: Kieber-Emmons, Thomas
APPLICANT: Postema, Christina E.
 08/119,032
 Query Match
Best Local Similarity 100.
Matches 7; Conservative
APPLICATION NUMBER:
 STATE: New Jersey COUNTRY: U.S.A.
 FTLKISR 21
 1 FTLKISR 7
 US-08-472-281A-33
 RESULT 5
US-08-477-989B-33
 APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
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RESULT 9
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 Sequence 80, Application US/0956322C

Sequence 80, Application US/0956322C

Patent No. 669620

GENERAL INFORMATION:
APPLICANT: BELCYTE PHARMACEUTICALS, INC.
APPLICANT: HIATT, ANDREW C.
APPLICANT: HIATT, ANDREW C.
APPLICANT: HIATN, MICH B.
TILLE REFERENCE: 068904-0501
CURRENT APPLICATION NUMBER: 108/09/563,222C
CURRENT FILING DATE: 2000-05-02
PRIOR APPLICATION NUMBER: PCT/US01/14349
PRIOR APPLICATION NUMBER: PCT/US01/14349
PRIOR FILING DATE: 2000-06-02
PRIOR APPLICATION NUMBER: 909/563,222
PRIOR FILING DATE: 2000-06-02
NUMBER OF SEQ ID NOS: 182
SOFTWARE: PatentIN Ver. 2.1
SEQ ID NO 80
LENGTH: 32
HUNGEN DE SEQ ID NOS: 182
SEQ ID NO 80
 GENERAL INFORMATION:
APPLICANT: BPICYTE PHARMACEUTICALS, INC.
APPLICANT: BITAT, ANDREW C.
APPLICANT: HIATT, ANDREW C.
APPLICANT: HEATT, ANDREW C.
APPLICANT: HEATT, ANDREW C.
APPLICANT: HEATT, ANDREW C.
APPLICANT: HEATT, ANDREW C.
CURRENT APPLICATION UNMBER: US/09/563,222C
CURRENT APPLICATION NUMBER: PCT/USO1/14349
PRIOR APPLICATION NUMBER: PCT/USO1/14349
PRIOR APPLICATION NUMBER: 09/563,222
PRIOR APPLICATION NUMBER: 2000-05-02
PRIOR PILING DATE: 2000-05-02
NUMBER OF SEQ ID NOS: 182
SOFTWARE: PATENTIN Ver. 2.1
SEQ ID NO 114
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 Query Match 100.0%; Score 33; DB 4; Length 32; Best Local Similarity 100.0%; Pred. No. 1.6; Matches 7; Conservative 0; Mismatches 0; Indels
 100.0%; Score 33; DB 4; Length 32; 100.0%; Pred. No. 1.6;
100.0%; Score 33; DB 3; Length 32; 100.0%; Pred. No. 1.6; tive 0; Mismatches 0; Indels
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 0; Mismatches
 RESULT 8
8-08-563-222C-114
; Sequence 114, Application US/09563222C
; Patent No. 6696620
 Query Match 100.
Best Local Similarity 100.
Matches 7; Conservative
 Ouery Match
Best Local Similarity 100.
Matches 7; Conservative
 TYPE: PRT
CORGANISM: Mus musculus
US-09-563-222C-114
 TYPE: PRT
ORGANISM: Homo sapiens
 15 FTLKISR 21
 15 FTLKİSR 21
 7
 15 FTLKİSR 21
 1 FTLKISR 7
 1 FTLKISR 7
 1 FTLKISR
 US-09-563-222C-80
 US-09-563-222C-80
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APPLICANT: DEDA, YSUNUKIA
APPLICANT: OKUMURA, KO
APPLICANT: DEDA, YSUNUKIA
APPLICANT: DEDA, YSUNUKIA
APPLICANT: MAEDA, HILOSAKI
APPLICANT: HIGUGHI, HILOSAKI
APPLICANT: HIGUGHI, MOTOMI
APPLICANT: NAKATA, MOTOMI
APPLICANT: NAKATA, MOTOMI
APPLICANT: NAKATA, MOTOMI
TITLE OF INVENTION: Pragments Thereof, and Apoptosis-Induced Site From Fas Ligand
TITLE OF PREBRICE: 05006-055
CURRENT APPLICATION NUMBER: US/09/254,180C
CURRENT APPLICATION NUMBER: US/09-04-15
 TITLE OF INVENTION: Method for obtaining modified
TITLE OF INVENTION: immunoglobulins with reduced immunogenicity of murine
TITLE OF INVENTION: antibody variable domains, compositions containing them.
NUMBER OF SEQUENCES: 31
CORRESPONDENCE ADDRESS:
ADDRESSEE: CENTRO DE INMUNOLOGIA MOLECULAR
 ;
 Gaps
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 Query Match
Best Local Similarity 100.0%; Pred. No. 4;
Matches 7; Conservative 0; Mismatches 0; Indels
 COMPUTER INDUCTOR STATE OF THE
 AUDRESSEE: CENTRO DE INMUNOLOGIA MOLECULAR
STREET: 215 Y 15, ATABEY PLAYA
CITY: HAVANA
 Sequence 154, Application US/09254180C
Patent No. 6777540
 Sequence 19, Application US/08497312 Patent No. 5712120 GENERAL INFORMATION:
 81 amino acids
 TELEFAX: 801/531-9168
TELEX: 388961 1PM04UT
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
 unknown
 MOLECULE TYPE: protein HYPOTHETICAL: NO
 unknown
 53 FTLKISR 59
 TYPE: amino acid
STRANDEDNESS: un
 1 FTLKISR 7
 CUBA
 US-09-254-180C-154
 COUNTRY: CI
ZIP: 11600
 TOPOLOGY:
US-08-497-312-19
 STATE:
 RESULT 10
```

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APPLICANT: MARBA, Hiroaki,
APPLICANT: WARBA, Hiroaki,
APPLICANT: WARBA, Hiroaki,
APPLICANT: USHIO, Yoshitaka
APPLICANT: USHIO, Yoshitaka
APPLICANT: USHIO, Yoshitaka
APPLICANT: HIROGHI, Hirofuni,
APPLICANT: HANDAINA MACOMI
TITLE OF INVENTION: Fragments Thereof, and Apoptosis-Induced Site From Fas Ligand
TITLE OF INVENTION: Fragments Thereof, and Apoptosis-Induced Site From Fas Ligand
TITLE REFERENCE: 050006-0055
CURRENT APPLICATION NUMBER: US/09/254,180C
CURRENT FILING DATE: 1999-04-15
PRIOR FILING DATE: 1997-08-27
PRIOR PELING DATE: 1996-09-20
PRIOR APPLICATION NUMBER: 231472/1996
PRIOR APPLICATION NUMBER: 231472/1996
PRIOR APPLICATION NUMBER: 231472/1996
PRIOR APPLICATION NUMBER: 231472/1996
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PRIOR APPLICATION NUMBER: 231472/1996
PRIOR APPLICATION NUMBER: 231472/1996
PRIOR APPLICATION NUMBER: 231472/1996
PRIOR APPLICATION NUMBER: 231472/1996
 TITLE OF INVENTION: Humanized Immunoglobulins Specifically Reactive to Fas Ligand or TITLE OF INVENTION: Fragments Thereof, and Apoptosis-Induced Site From Fas Ligand
 .
0
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 ; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic peptide
US-09-254-180C-156
 OTHER INFORMATION: Description of Artificial Sequence: Synthetic peptide
 Gaps
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100.0%; Score 33; DB 4; Length 81;
Best Local Similarity 100.0%; Pred. No. 4;
Matches 7; Conservative 0; Mismatches 0; Indels
 Length 81;
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 100.0%; Score 33; DB 4;
100.0%; Pred. No. 4;
tive 0; Mismatches 0
 FILE REFERENCE: 050006-0055
CURRENT APPLICATION NUMBER: US/09/254,180C
CURRENT APPLICATION NUMBER: US/09/254,180C
CURRENT FILING DATE: 1990-04-15
PRIOR APPLICATION NUMBER: 271546/1996
PRIOR FILING DATE: 1996-09-20
PRIOR FILING DATE: 1996-09-20
PRIOR FILING DATE: 1996-09-20
PRIOR FILING DATE: 1996-09-20
NUMBER OF SEQ ID NOS: 183
SEQ ID NO 156
 US-09-254-180C-157
Sequence 157, Application US/09254180C
; Patent No. 6777540
; GENERAL INFORMATION:
 TYPE: PRT
ORGANISM: Artificial Sequence
 TYPE: PRT
ORGANISM: Artificial Sequence
 Query Match
Best Local Similarity 100..
T; Conservative
 EDA, Yasuyuki
 APPLICANT: OKUMURA, KO APPLICANT: EDA, Yasuyı
 53 FTLKISR 59
 Frikisk 59
 FTLKISR 7
 1 FTLKISR 7
 US-09-254-180C-157
 RESULT 14
US-09-254-180C-158
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 100.0%; Score 33; DB 4; Length 81; 100.0%; Pred. No. 4;
 100.0%; Score 33; DB 4; Length 81; 100.0%; Pred. No. 4; tive 0; Mismatches 0; Indels
 0; Indels
 0; Mismatches
PRIOR APPLICATION NUMBER: PCT/JOP97/02983
PRIOR FILING DATE: 1997-08-27
PRIOR FILING DATE: 1997-08-27
PRIOR PILING DATE: 1996-09-20
PRIOR APPLICATION NUMBER: 231472/1996
PRIOR APPLICATION NUMBER: 231472/1996
NUMBER OF SEQ ID NOS: 183
SOFTWARE: Patentin version 3.1
LENGTH: 81
 Sequence 156, Application US/09254180C
Patent No. 6777540
GEMERAL INFORMATION:
APPLICANT: OKUMURA, Ko
APPLICANT: BDA, Yasuyuki
APPLICANT: MAEDA, Hiroaki
APPLICANT: USHIO, Yoshitaka
APPLICANT: HIGHCHI, Hirofumi
APPLICANT: NAKATA, MOLOMi
 ; Sequence 155, Application US/09254180C; Patent No. 6777540
 Query Match
Best Local Similarity 100.
Matches 7; Conservative
 Query Match
Best Local Similarity 100.
 TYPE: PRT; ORGANISM: Homo sapiens
US-09-254-180C-154
 ; ORGANISM: Homo sapiens
US-09-254-180C-155
 53 FTLKISR 59
 53 FTLKISR 59
 1 FTLKISR 7
 1 FTLKISR 7
 US-09-254-180C-155
 RESULT 12
US-09-254-180C-156
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Gaps

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Search completed: November 4, 2004, 06:53:08 Job time: 39 secs
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 GENERAL NEVEWATION:
APPLICANT: OKUMURA, Ko
APPLICANT: BDA, YBSUPAKI;
APPLICANT: BDA, YBSUPAKI;
APPLICANT: MAEDA, Hirotaki
APPLICANT: HIGUTH, Hirotaki
APPLICANT: HIGUTH, Hirotaki
APPLICANT: HIGUTH, Hirotaki
APPLICANT: NAKATA, Motomi
TITLE OF INVENTION: Fragments Thereof, and Apoptosis-Induced Site From Fas Ligand
TITLE OF INVENTION: Fragments Thereof, and Apoptosis-Induced Site From Fas Ligand
TITLE OF INVENTION NUMBER: US/09/254,180C
CURRENT APPLICATION NUMBER: DCT/JD97/02983
PRIOR PILING DATE: 1997-08-27
PRIOR APPLICATION NUMBER: 231472/1996
PRIOR FILING DATE: 1996-09-20
PRIOR FILING DATE: 1996-09-02
NUMBER OF SEQ ID NOS: 183
SOFTWARE: PatentIn version 3.1
IENGTH: 81
 APPLICANT: DOWNORTY: ASSUVABLE APPLICANT: DAWNORTY: APPLICANT: BDA, Yasuyuki APPLICANT: MAEDA, Hiroaki APPLICANT: MAEDA, Hiroaki APPLICANT: MAEDA, Hiroaki APPLICANT: WARIO, Yoshitaka APPLICANT: HIGUENI WARIO, WOOMIN HUMONIZON HUMONIZON HUMONIZON HUMONIZON HUMONIZON TITLE OF INVENTION: Fragments Thereof, and Apoptosis-Induced Site From Fas Ligand or TITLE OF INVENTION: Fragments Thereof, and Apoptosis-Induced Site From Fas Ligand CURRENT APPLICATION NUMBER: US/09/254,180C
CURRENT FILING DATE: 1999-04-15
PRIOR FILING DATE: 1999-04-15
PRIOR PLICATION NUMBER: 271546/1996
PRIOR APPLICATION NUMBER: 271546/1996
PRIOR APPLICATION NUMBER: 231472/1996
PRIOR FILING DATE: 1996-09-20
PRIOR FILING DATE: 1996-09-02
PRIOR FILING DATE: 1996-09-03
NUMBER OF SEQ ID NOS: 183
SOFTWARE: PatentIn version 3.1
 ô
 ; OTHER INFORMATION: Description of Artificial Sequence: Synthetic peptide US-09-254-180C-159
 FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic peptide
US-09-254-180C-158
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 100.0%; Score 33; DB 4; Length 81; 100.0%; Pred. No. 4;
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Best Local Similarity 100.0%; Pred. No. 4;
Matches 7; Conservative 0; Mismatches 0; Indels
 RESULT 15
US-09-284-180C-159
; Sequence 159, Application US/09254180C
; Patent No. 6777540
Sequence 158, Application US/09254180C
Patent No. 677540
GENERAL INFORMATION:
APPLICANT: OKUMORA, KO
 TYPE: PRT ORGANISM: Artificial Sequence
 TYPE: PRT
ORGANISM: Artificial Sequence
 |||||||
53 FTLKISR 59
 Query Match
Best Local Similarity
 1 FTLKISR 7
 SEQ ID NO 158
LENGTH: 81
 FEATURE:
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Indels
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 0; Mismatches
 7; Conservative
 53 FTLKISR 59
 1 FTLKISR 7
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4, 2004, 06:45:39; Search time 38 Seconds (without alignments) 17.724 Million cell updates/sec
GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
 OM protein - protein search, using sw model
 November
 Run on:
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US-09-712-819D-6 33 Perfect score:

1 FTLKISR 7 Sequence:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

283416 seqs, 96216763 residues

283416 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

PIR 79:\*
1: Dir1:\*
2: Dir2:\*
3: Dir3:\*
4: Dir4:\* Database :

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

| Description            | g kappa chain V | g kappa | g kappa chain - | g kappa chain V- | kappa chain V | g kappa chain V | g kappa chain V | g kappa chain V | g kappa  | g kappa  | Б       | O.     | g kappa chain V | g kappa | a heavy chain V | g kappa chain V | d kappa chain V | g kappa | g kappa chain - | g light chain V | g kappa chain V- | g kappa chain V | g light chain V | a kappa chain V | r kappa chain V | a kappa chain V | y kappa chain V | x kappa chain V | g light cha |
|------------------------|-----------------|---------|-----------------|------------------|---------------|-----------------|-----------------|-----------------|----------|----------|---------|--------|-----------------|---------|-----------------|-----------------|-----------------|---------|-----------------|-----------------|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------|
| rs O                   |                 |         |                 |                  | S24211        | 834095          | 534091          |                 | 845155   | \$42186  | \$25463 | PH1039 | PL0258          | 840320  | E28833          | S24504          | S24501          | S45440  | S24681          | S26334          | C34153           | A33730          | H105            | 1459            | 1459            | S14594          | 1459            | 59              | H103        |
| Length DB              | 4               | Н.      | N I             | ın ı             | 833           | nı              | ~ c             | <b>~</b> (      | ν.       | <b>.</b> | , .     | m      | 4               | 9       | σ               | 6               | 66              | 0       | 00              | 00              | 5                | 01              | 01              | 02              | 02              | 02              | 02              | 02              | 02          |
| %<br>Query<br>Match Le | 00              | 000     | ġ.              | 96               | 0 0           |                 |                 |                 | 3 6      | 90       | . ·     | 0      | 00              | 00      | 00              | 00              | ς.              | 00      | · .             | 00              | 90               | 9               | 00              | 00              | Ö               | ö               | ö               |                 |             |
| Score                  | 333             | m c     | m (             | m (              |               | 0 0             | 0 0             | 0 0             | י ר<br>י | n (      | <br>    | , L    | m<br>m          | 33      | 33              | 33              | 33              | 33      | (M)             | 33              | E C              | λ) (            | 33              | 33              | 33              | 33              | 33              | 33              | 33          |
| Result<br>No.          | :<br>: H (      | N C     | n d             | <b>4₁</b> ľ      | n u           | 7 0             | ۰ ۵             | 0               | , ,      | 7,       | 1,      | 77     | ۲.<br>ا         | 4.1     | 12              | 16              | 17              | 18      | 5 C             | 0 7             | 1 C              | 77              | 23              | 24              | 25              | 56              | 27              | 28              | 29          |

| карра | light      | ig light chain V r<br>Id light chain V r | Ξ     | light | glight | g light | g light | g light | light | g light | a light | Id light chain V r | light | light o |  |
|-------|------------|------------------------------------------|-------|-------|--------|---------|---------|---------|-------|---------|---------|--------------------|-------|---------|--|
|       |            | PH1056                                   |       |       |        |         |         |         |       |         |         |                    |       | PH1055  |  |
|       |            | 103 2                                    |       |       |        |         |         |         |       |         |         |                    |       |         |  |
| 100.0 | 700.0      | 100.0                                    | 100.0 | 100.0 | 100.0  | 100.0   | 100.0   | 100.0   | 100.0 | 100.0   | 100.0   | 100.0              | 100.0 | 100.0   |  |
| 33    | η c<br>η c | ი ო<br>ი                                 | 33    | 33    | 33     | 33      | 33      | 33      | 33    | 33      | 33      | 33                 | 33    | 33      |  |
| 9,0   | 3. L       | 33                                       | 34    | 35    | 36     | 37      | 38      | 39      | 40    | 41      | 42      | 43                 | 44    | 45      |  |

## ALIGNMENTS

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Is kappa chain V region - human
C;Species: Homo sapiens (man)
C;Dece O2-Dec-1993 #sequence_revision 26-May-1995 #text_change 07-May-1999
C;Accession: 634093
R;Wagner, S.D.; Luzzatto, L.
Bur. J. Immunol. 23, 391-397, 1993
A;Title: V-kappa gene segments rearranged in chronic lymphocytic leukemia are distribut
A;Reference number: 834076; MUID:93170387; PMID:8436174
A;Accession: 834093
A;Accession: 834093
A;Accession: 834093
A;Residues: 1-54 «WAG>
A;Residues: 1-54 «WAG>
A;Cross-references: EMBL:X67177
A;Cross-references: EMBL:X67177
A;Cross-references: EMBL:X67177
A;Note: the nucleotide sequence was submitted to the EMBL Data Library, July 1992
C;Superfamily: immunoglobulin V region; immunoglobulin homology
 Gaps
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 100.0%; Score 33; DB 2; Length 54; 100.0%; Pred. No. 0.51; ive 0; Mismatches 0; Indels
 7; Conservative
 Query Match
Best Local Similarity
 Matches
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FILKISR 49 1 FTLKISR 7 43 à 셤

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Ig kappa chain V region (174.3F4) - mouse (fragment)

G/Species: Mus musculus (house mouse)

G/Species: Musculus (house mouse)

G/Species: Musculus (house mouse)

G/Accession: H30538

R/Clafflin, J.L.; Berry, J.

J. mmunol. 141, 4012-4019, 1988

A/Filtle: Genetics of the phosphocholine-specific antibody response to Streptococcus pnelly A/Ricernce number: A30534; MUID:89035545; PMID:3141511

A/Accession: H30538

A/Accession: H30538

A/Accession: H30538

A/Accession: H30538

A/Accession: H30538

A/Accession: J. CLAA

A/Accession: J. CLAA

A/Residues: 1.71 CLAA

C/Superfamily: immunoglobulin V region; immunoglobulin homology

G/Keywords: heterotetramer; immunoglobulin

Gaps 6 100.0%; Score 33; DB 2; Length 71; 100.0%; Pred. No. 0.67; tive 0; Mismatches 0; Indels Query Match
Best Local Similarity 100.
Matches 7; Conservative

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35 FTLKISR 41 1 FTLKISR 7 à g

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Gaps

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Ly Napye Lorant V 1991-1895 #text_change 09-Jul-2004
C; Species: Homo sapiens (man)
C; Accession: 834095
B; Wagner, S.D.; Luzzatto, L.
Eur. J. Immunol. 23, 391-397, 1993
A; Title: V. kappa gene segments rearranged in chronic lymphocytic leukemia are distribut A; Reference number: 834076; WUID: 93170387; PMID: 8436174
A; Reference number: 834095
A; Recession: 834095
A; Residues: preliminary
A; Molecule type: DNA
A; Residues: 1-83 < WAG>
A; Residues: 1-83 < WAG>
A; Residues: 1-83 < WAG>
A; Residues: inmunoglobulin V region; immunoglobulin homology
C; Reywords: heterotetramer; immunoglobulin prology < IMM>
 Cispecies: Homo sapiens (man)
Cibace 13-dan-1995 #sequence_revision 13-Mar-1998 #text_change 09-Jul-2004
Cipacession: S34091; 834092
R;Wagner, S.D.; Luzzatto, L.
R;Wagner, S.D.; Luzzatto, L.
Birr. J. Immunol. 23, 391-397, 1993
A;Title: V-kappa gene segments rearranged in chronic lymphocytic leukemia are distribut
A;Reference number: S34076; MUID:93170387; PMID:8436174
 A;Cross-references: BNBL:X67176
A;Experimental source: patient 20
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heteroteramer; immunoglobulin
F;3-82/Domain: immunoglobulin homology <IMM>
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 Ig kappa chain V region (patient 19 and 20) - human (fragment)
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A,Residues: 1-87 < WAG>
A,Cross-references: UNIPROT: QRNEKO; EMBL: X67175
A,Experimental source: patient 19
A,Accession: 834092
A,Molecule type: DNA
A,Residues: 1-87 < WAW>
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 Ig kappa chain V region - human
 Query Match
Best Local Similarity 100...
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 63 FTLKISR 69
 61 FTLKISR 67
 59 FTLKISR 65
 1 FTLKISR 7
 1 FTLKISR 7
 Query Match
Best Local Similarity
 A; Accession: S34091
 Matches
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 R; Pargent, W.; Meindl, A.; Thiebe, R.; Mitzel, S.; Zachau, H.G.
Eur. J. Immunol. 21, 1821-1827, 1991
A; Pargent, W.; Meindl, A.; Thiebe, R.; Mitzel, S.; Zachau, H.G.
Eur. J. Immunol. 21, 1821-1827, 1991
A; Fitle: The human immunoglobulin kappa locus. Characterization of the duplicated O 1 A; Reference number: S24205; MUID:91330953; PMID:1907917
A; Accession: S2421
A; Accession: S2421
A; Accession: S2421
A; A; Molecule type: DNA
A; Residues: 1-83 < PARA.
A; Residues: 1-83 < PARA.
A; Residues: I-83 < PARA.
C; Superfamily: immunoglobulin V region; immunoglobulin homology
C; Keywords: heterotetramer; immunoglobulin
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 ö
 Ig kappa chain V-J-C region - human C;Species: Homo sapiens (man) C;Species: Homo sapiens (man) C;Species: Homo sapiens (man) C;Date: 19-May-1994 #sequence_revision 26-May-1995 #text_change 23-Jul-1999 C;Accession: S40337 R;Klein, R.; Jaenichen, R.; Zachau, H.G. Bur. J. Immunol. 23, 3248-3211, 1993 A;Title: Expressed human immunoglobulin chi genes and their hypermutation. A;Reference number: S40312; MuID:94080891; PMID:8258341
 IG kappa chain V region (V3a) - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 19-Feb-1994 #sequence_revision 10-Nov-1995 #text_change 23-Jul-1999
 Species: Homo sapiens (man)
Date: 06-Mar-1994 #sequence_revision 26-May-1995 #text_change 23-Jul-1999
 C)Accession: S40358
R)Klein, R.; Jaenichen, R.; Zachau, H.G.
Bur. J. Immunol. 23, 3248-3271, 1993
A)7title: Expressed human immunoglobulin chi genes and their hypermutation. A; Reference number: 840312; MUD:94080891; PMID:8258341
A)Accession: 840358
A,Status: preliminary; translation not shown
A)Residues: preliminary; A; Residues: 1-72 «KLE»
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A)Cross-references: EMBL:X72468; NID:g441404; PIDN:CAA51136.1; PID:g441405
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C; Keywords: heterotetramer; immunoglobulin
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A,Molecule type: mENA
A,Residues: 1-75 <KLE>
A;Cross-references: EMBL:X72447; NID:g441362; PIDN:CAA51115.1; PID:g441363
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
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 0; Indels
 100.0%; Score 33; DB 2 ilarity 100.0%; Pred. No. 0.7; Conservative 0; Mismatches
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 Query Match
Best Local Similarity 100.
 Query Match
Best Local Similarity
7; Conserve
 30 Frikisk 36
 28 FTLKISR 34
 7
 FTLKISR 7
 Ig kappa chain - human
 FTLKISR
 RESULT 5
 RESULT 4
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Gaps

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A;Cross-references: EMBL:Z25460; NID:g407848; PIDN:CAA80947.1; PID:g407849
A;Cross-references: EMBL:Z25460; NID:g407848; PIDN:CAA80947.1; PID:g407849
A;Note: the authors translated the codon GTT for residue 81 as Thr, TGG for residue 85
C;Superfamily: immunoglobulin v region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
F;7-86/Domain: immunoglobulin homology <IMM>
 monoclonal antibodies to core histon
 if light chain V region (clone 165.27) - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Species: Mus musculus (house mouse)
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 09-Jul-2004
C;Accession: PH1039
R;Tillman, D.M.; Jou, N.T.; Hill, R.J.; Marion, T.N.
A;Tillman, D.M.; Jou, N.T.; Hill, R.J.; Marion, T.N.
A;Tille: Both IgM and IgG anti-DNA antibodies are the products of clonally selective B A;Reference number: PH0971; MUID:92381444; PMID:1512540
A;Accession: PH1039
A;Accession: pH1039
A;Accession caid sequence not shown
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C;Accession: S25463
R;Monsetier, M; Fasy, T.M.; Losman, M.J.; Novick, K.E.; Muller, S.
Bibmitted to the EMBL Data Library, July 1992
A;Description: Structure and binding properties of monoclonal antibodies to
 A)Cross-references: EMBL:X67624; NID:952189; PIDN:CAA47882.1; PID:9938264
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 A; Accession: S25463
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C;Date: 13-Jan-1995 #sequence_revision 13-Jan-1995 #text_change 09-Jul-2004
C;Accession: 834094
R;Wagner, S.D.; Luzzatto, L.
Bur. J. Immunol. 23, 331-397, 1993
A;Tile: V-kappa gene segments rearranged in chronic lymphocytic leukemia are distribute
A;Reference number: 834076; MUID:93170387; PMID:8436174
A;Accession: 834094
A;Accession: S34094
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C; Accession: B22155
Proc. Natl. Acad. Sci. U.S.A. 33, 1050-1054, 1986
A; Title: Relationship of V(H) and V(L) genes encoding three idiotypic families of anti-p A; Reference number: A94083; MUID:86149212; PMID:3081888
A; Reference number: A94083; MUID:86149212; PMID:3081888
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 S42186

Ja kappa chain V region - mouse (fragment)

Ja kappa chain V region - mouse (fragment)

Ja kappa chain V region - mouse (fragment)

Ja kappa chain V region - mouse (fragment)

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Ja kappa chain sequence revision 21-Jul-1995 #text_change 21-Jan-2000

Ja kappa chain sequence revision 21-Jul-1995 #text_change 21-Jan-2000

Ja kylou, Ja kappa chain kappa chain sequence region gene selection of immunoglobulin G-expressing B cells with spect Alacession: $42176; MulD:94009207; PMID:7691608
 85
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A,Residues: 1-91 -000J>
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A,Accession: 542195
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100.0%; Pred. No. v..
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Job time : 39 secs
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 R;Corbet, S.; Hinn, M.; Roth, C.; Theze, J.; Fougereau, M.; Schiff, C.
J. Immunol. 141, 779-784, 1988
A;Title: Allogeneic manipulation of the GAT idiotypic cascade. Immunization of C57BL/6 r
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D. Exp. Med. 171, 265-297, 1990
A;Title: Anti-DNA antibodies from autoimmune mice arise by clonal expansion and somatic
A;Reference number: PL0231; MUID:90111618; PMID:2104919
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Bur. J. Immunol. 23, 3248-3271, 1993
A.Fitle: Expressed human immunoglobulin chi genes and their hypermutation.
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F)86-94/Region: framework 4
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7; Conserva
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 1 FTLKISR 7
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P01615 homo sapien
P01617 homo sapien
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P01611 homo sapien
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Q91180 homo sapien
Q91180 homo sapien
Q9110 homo sapien
P06110 homo sapien
Q98110 mus musculu
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 Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
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KV2D HUMAN
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| P01615 homo sapien P03976 mus musculu P01630 mus musculu Bac03982 homo sapien QBnek0 homo sapien QBred0 homo sapien QRazul photorhabdu O60678 homo sapien QWav3 homo sapien QWav3 anopheles g Q46453 clostridium Q81kt5 plasmodium Q01866 clostridium Q01866 clostridium Q06851 clostridium                       | odate) prata; Buteleostomi; lnidae; Homo. ni R.M., Kuppers R., databases.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Length 86;<br>Indels 0; Gaps 0;                                                                                   | tte) date) ;). rrata; Euteleostomi; rridae; Murinae; Mus. Zhou J.X., Mohan C.;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| 90.9 113 1 KV2B HUMAN<br>90.9 113 1 KV2F MOUSE<br>90.9 113 1 KV2F MOUSE<br>90.9 239 2 RACO3982<br>90.9 239 2 QNBKO<br>90.9 367 2 QNBKO<br>90.9 551 1 ANMZUI<br>90.9 554 2 QNWZUI<br>90.9 558 2 QAGAS<br>90.9 568 2 QAGAS<br>90.9 764 2 QRIKTS<br>90.9 764 2 QRIKTS<br>90.9 764 2 QRIKTS<br>90.9 1853 1 CIPB CLOTM | MINARY; PRT; 86 AA.  Birel. 25, Created)  Birel. 25, Last sequence upd  Birel. 26, Last amnotation up  V gene segment (Fragment).  an)  an)  an; Chordata; Craniata; Verte  a; Primates; Catarrhini; Hom  choma;  muninger A.;  03) to the EMBL/GenBank/DDBJ  AD22033.1;  10; 19-1ike.  96; 19-V.  11.  16_LIKE; 1.  16_LIKE; 1.  16_LIKE; 1.  16_STAN; D198FC04FE0C78FD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Similarity 100.0%; Score 33; DB 2; L Similarity 100.0%; Pred. No. 4.6; 7; Conservative 0; Mismatches 0; FTLKISR 7 | PRELIMINARY; PRT; 102 AA. (TrEMBLrel. 27, Created) (TrEMBLrel. 27, Last sequence upda (TrEMBLrel. 27, Last annotation up obulin kappa light chain (Fragment (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse). (Mouse).  |
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P01629 mus musculu Q61em8 mus musculu Bad00151 mus muscu Aar11054 mus muscu Aar11064 mus muscu mus musculu

Zhou J.X., Mohan C.;

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SEQUENCE FROM N.A. STRAIN-B6.Sle1; TISSUE-Spleen; Liang Z., Xie C., Chen C., Kreska D., Hsu K., Zhou J.X., "Antinuclear autoantibodies from B6.Sle1 mice."; Submitted (SEP-2003) to the EMBL/GenBank/DDBJ databases. EMBL; AY436864; AAR11024.1; -.
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02-MAR-2004 (TrEMBLrel. 27, Last sequence update)
02-MAR-2004 (TrEMBLrel. 27, Last annotation update)
ANA immunoglobulin kappa light chain (Fragment).

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Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

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 with cardiac myosin.";
Infect. Immun. 68:5803-5808 (2000).
RMBL, AF206024; AAR69322.1;
PIR; PL0258; PL0258.
PIR; S26334, S26334.
PB; JDLF; X-ray; ---
InterPro; IPR007110; Ig-like.
InterPro; IPR00356; Ig-v.
Fam; PF00047; ig; 1.
 PRT;
 STRAIN=BALB/c;
MEDLINE=20448942; PubMed=1099248B;
 PROSITE; PS50835; IG_LIKE; 1.
 Local Similarity 100.0%;
ses 7; Conservative (
 PRELIMINARY;
 Mus musculus (Mouse)
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FTLKISR 74
 74 FTLKISR 80
 1 FTLKISR 7
 1 FTLKISR 7
 SEQUENCE FROM N.A.
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 SEQUENCE FROM N.A.
STRAIN=B6.Sle1; TISSUE=Spleen;
Liang Z., Xie C., Chen C., Kreska D., Hsu K., Zhou J.X., Mohan C.;
Liang Z., Xie C., Chen C., Kreska D., Hsu K., Zhou J.X., Mohan C.;
"Antinuclear autoantibodies from B6.Sle1 mice.";
Submitted (SEP-2003) to the EMBL/GenBank/DDBJ databases.

EMBL; AY436896; AAR11056.1; -.
 Eukaryota, Merazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. NCBI_TaxID=10090;
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Butheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
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 100.0%; Score 33; DB 2; Length 104; 100.0%; Pred. No. 5.5; ive 0; Mismatches 0; Indels
 Length 104;
 Indels
 11304 MW; 9358D08600C6E65A CRC64;
 104 AA; 11327 MW; BFC116BEF36AB51A CRC64;
104 104 104 101 104 AA; 11310 MW; 2CF631F3058E2BB9 CRC64;
 AAR11063;

2-MAR-2004 (TrEMBLrel. 27, Created)

02-MAR-2004 (TrEMBLrel. 27, Last sequence update)

02-MAR-2004 (TrEMBLrel. 27, Last annotation update)
 02-MAR-2004 (TrEMBLrel. 27, Created)
02-MAR-2004 (TrEMBLrel. 27, Last sequence update)
02-MAR-2004 (TrEMBLrel. 27, Last annotation update)
ANA immunoglobulin kappa light chain (Fragment).
 0
 100.0%; Score 33; DB 2;
100.0%; Pred. No. 5.5;
iive 0; Mismatches 0;
 ANA immunoglobulin kappa light chain (Fragment)
Mus musculus (Mouse).
 104 AA.
 104 AA.
 PRT;
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Dreyer W.J., Gray W.R., Hood L.B.;

"The genetic, molecular, and cellular basis of antibody formation:
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"The genetic, molecular, and cellular basis of antibody formation:
"The genetic, molecular, and cellular basis of antibody formation:
"The genetic and a unifying hypothesis.",
"Come facts and a unifying hypothesis.",
"Come facts and a unifying hypothesis.",
"Come facts and a unifying hypothesis.",
"InterEnce The C region of this chain has the INV (3) marker.
"The MISCELLANBOUS: This is a Bence-Jones protein.

PIR, A01887; KZHUML.

RHSSP, Q99MJ7; 1191.

RMART; SM00406; 1Gv; 1.

RMART; SM00406; 1Gv; 1.

RMART; RM00406; 1Gv; 1.

RMART; RM00406; 1Gv; 1.

RMART; Anticetterin, Direct protein sequencing;
"The molecular protein; Direct protein sequencing;
 MEDLINE=74148480; PubMed-4596149; Putnam F.W., Whitley B.J. Jr., Paul C., Davidson J.N.; Putnam F.W., Whitley B.J. Jr., Paul C., Davidson J.N.; Maino acid sequence of a kappa Bence Jones protein from a case of primary amyloidosis."
 Publi, 21-07U-1986 (Rel. 01, Created)
21-07U-1986 (Rel. 01, Last sequence update)
21-07U-2004 (Rel. 44, Last annotation update)
19 Kappa chain V-II region TBW.
19 Homo sapiens (Human).
Eukaryota, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
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Complementarity-determining-1.
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 Complementarity-determining-3
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MEDLINE=73166638; PubMed=4700495;
Terry W.D., Page D.L., Kimura S., Isobe T., Osserman B.F.,
 12055 MW; E5B22E2FA7ABE481 CRC64;
 ö
 21-UU1-1986 (Rel. 01, Created)
21-UU1-1986 (Rel. 01, Last sequence update)
05-UU1-2004 (Rel. 44, Last annotation update)
Homo sapiens (Human).
 112 AA
 113 AA.
 By similarity.
 Mismatches
 Framework-2
 Framework-4
 SEQUENCE (BENCE-JONES PROTEIN TEW).
 PRT;
 Biochemistry 12:3763-3780(1973).
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0
 100.0%;
 STANDARD;
 7; Conservative
 [mmunoglobulin V region.
 STANDARD;
 23
38
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53
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192
 FTLKISR 81
 112 AA;
 1 FTLKISR 7
 Local Similarity
 NCBI_TaxID=9606;
 NCBI_TaxID=9606;
 KV2C HUMAN
 KV2D HUMAN
 SEQUENCE.
 DOMAIN
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 SEQUENCE
 Query Match
 DOMAIN
 P01617;
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 KV2D_HUMAN
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 SEQUENCE FROM N.A.
STRAINB6.Slel; TISSUE-Spleen;
STRAINB6.Slel; TISSUE-Spleen;
Liang Z., Xie C., Chen C., Kreska D., Hsu K., Zhou J.X., Mohan C.;
"Antinuclear autoantibodies from B6.Slel mice.";
Submitted (STE-2003) to the EMBL/GenBank/DDBJ databases.
EMBL; AY436914; AAR11074.1; -.
 STRAIN=B6.S181; TISSUB=Spleen;
Liang Z., Xie C., Chen C., Kreska D., Hsu K., Zhou J.X., Mohan C.;
"Antinuclar autoantibodies from B6.S181 mice.";
Submitted (SEP-2003) to the EMBL/GenBank/DDBJ databases.
EMBL; AY436830; AAR10990.1;
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Mammalia, Butheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus
 Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi,
Mammalia, Butheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus.
 0;
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02-MAR-2004 (TrEMBLrel. 27, Created)
02-MAR-2004 (TrEMBLrel. 27, Last sequence update)
02-MAR-2004 (TrEMBLrel. 27, Last annotation update)
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 02-MAR-2004 (TrEMBLrel. 27, Created)
02-MAR-2004 (TrEMBLrel. 27, Last sequence update)
02-MAR-2004 (TrEMBLrel. 27, Last annotation update)
ANA immunoglobulin kappa light chain (Fragment).
 ;
0
 105 AA.
 109 AA.
 0; Mismatches
 Mismatches
 PRT;
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 11378 MW;
Query Match
Best Local Similarity 100.
Matches 7; Conservative
 PRELIMINARY;
 Query Match
Best Local Similarity 100.
Matches 7; Conservative
 Conservative
 PRELIMINARY;
 Query Match
Best Local Similarity
7; Conserve
 Mus musculus (Mouse)
 74 FTLKISK 80
 105 AA;
 FTLKISK 80
 7
 68 FTLKISR 74
 FILKISR 7
 7
 SEQUENCE FROM N.A.
 1 FTLKISR
 NCBI_TaxID=10090;
 NCBI_TaxID=10090;
 FTLKISR
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RESULT 8 AAR10990

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Indels

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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 SEQUENCE FROM N.A. MEDLINE=98277139; PubMed=9614934; MEDLINE=98277139; PubMed=9614934; M.X., Liu B., Van der Merwe P.L., Kalis N.N., Berney S.M., Young D.C.; Myosin-reactive autoantibodies in rheumatic carditis and normal
 2; Length 114;
 Score 33; DB 1; Length 113; Pred. No. 6;
 Complementarity-determining-2. Framework-3. Complementarity-determining-3.
 01-MAY-2000 (TrEMBLrel. 13, Created)
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01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
Myosin-reactive immunoglobulin light chain variable region
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02-MAR-2004 (TrEMBLrel. 27, Created)
02-MAR-2004 (TrEMBLrel. 27, Last sequence update)
02-MAR-2004 (TrEMBLrel. 27, Last annotation update)
ANA immunoglobulin kappa light chain (Fragment).
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 Fetus.";
Clin. Immunol. Immunopathol. 87:184-192(1998).
EMBL; AF035034; AAD56270.1; -.
PIR, B49002; B49002.
PIR, S23638; S23638.
PIR, S34094; S34094.
PIR, S34095; S34094.
INTERPO: IPR0077110; Ig-like.
InterPro: IPR0077110; Ig-like.
PETR: PR00047; Ig: Ig-v.
PETR: PR00047; Ig: Ig-v.
PETR: PR00047; Ig: Ig-v.
PETR: PR00047; Ig: Ig-v.
PETR: PR00185; IG-LIKE; I.
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 100.0%; Prec. ...
 By similarity.
 Framework-2.
Framework-1.
 Framework-
 PRT;
 100.08;
 Query Match
Best Local Similarity 100.0
... 7; Conservative
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Best Local Similarity 100.
Matches 7; Conservative
 PRELIMINARY;
23
102
1102
1122
1132
 114 AA;
 Homo sapiens (Human)
 76 FTLKISK 82
 1
24
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62
103
113
113 AA;
 76 FTLKİSR 82
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 1 FTLKISR 7
 NCBI_TaxID=9606;
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 RESULT 13
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 "Structural identity of Bence Jones and amyloid fibril proteins in a patient with plasma cell dyscrasia and amyloidosis.";
J. Clin. Invest. 52.1276-1281(1973).
-!- MISCELLANEOUS: The major amyloid protein appears to be identical with the Bence Jones protein isolated from the same patient.
-!- MISCELLANEOUS: This protein was isolated from the urine of a patient with plasma cell dyscrasia and amyloidosis.
-!- MISCELLANEOUS: The C region of this chain has the INV (1,2)
 Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus.
NCBI_TaxID=10090;
 PIR, A01914; KVMS26.
HSSP; Q99M37; II191.
InterPro; IPR007110; Ig-like.
InterPro; IPR00156; Ig_v.
Pfam; PF00047; ig; 1.
SMART; SM00406; IGv; 1.
PROSITE; PS50835; IG_LIKE; 1.
Direct protein sequencing; Hybridoma; Immunoglobulin V region; Monoclonal antibody.
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 PIR; ASOTOTO, KZHUTW.

R HSSP, A990A7; 1191.

R GO; GO:0003823; F:antigen binding; NAS.

GO; GO:0006955; F:antigen binding; NAS.

R GO; GO:0006955; F:antigen binding; NAS.

R GO; GO:0006955; F:antigen binding; NAS.

R InterPro; IPR003959; Ig_v.

R InterPro; IPR003959; Ig_v.

R SWART: SW00406; IGv; 1.

R PROSITE; PS50835; IG_LIKE; 1.

R MAWJOid; Bence-Jones protein; Direct protein sequencing; Immunoglobulin V region.
 DB 1; Length 113;
 Framework-1.
Complementarity-determining-1.
Framework-2.
 Complementarity-determining-2
 Complementarity-determining-3
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 21-JUL-1986 (Rel. 01, Created)
21-JUL-1986 (Rel. 01, Last sequence update)
22-JUL-2004 (Rel. 44, Last annotation update)
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 By similarity.
 100.0%; Score 33; Di
100.0%; Pred. No. 6;
 0: Mismatches
 Framework-4
 Framework-3
 12316 MW;
 STANDARD;
 Conservative
 Mus musculus (Mouse)
 55
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113 AA;
 FTLKISR 82
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 KV2G MOUSE P01631;
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 KV2G MOUSE
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78 FTLKISR 84
 NCBI_TaxID=9606;
 HUMAN
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KV2E_HUMAN
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 Hilschmann N.;
"The complete amino acid sequence of Bence Jones protein Cum (kappa-
 SEQUENCE FROM N.A.
STRAIN=B6.Slel; TISSUE=Spleen;
Liang Z., Xie C., Chen C., Kreska D., Hsu K., Zhou J.X., Mohan C.;
"Antinuclear autcontibodies from B6.Slel mice.";
Submittacd (SEP-2003) to the EMBL/GenBank/DDBJ databases.
EMBL; AY436857; AAR1017.1; -.
MON TER
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 Homo sapiens (Human).
Wakaryota, Metazoa, Chordata, Craniata, Vertebrata; Buteleostomi;
Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
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 100.0%; Score 33; DB 1; Length 115; 100.0%; Pred. No. 6.1;
 Indels
 115 AA; 12676 MW; 59E9F90A379569EC CRC64;
 Hoppe-Seyler's Z. Physiol. Chem. 348:1718-1722(1967)
 0
 Pfan, PF00047; ig; 1. SMART; SM00406; IGv; 1. PROSITE, PS50835; IG LIKE; 1. Bence-Jones protein; Direct protein sequencing; Immunoglobulin V region.
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 By similarity.
 MEDLINE=68242259; PubMed=5586923;
 REVISIONS TO 50; 52; 96 AND 97
 Query Match
Best Local Similarity 100.0%
 7; Conservative
 115
Mus musculus (Mouse).
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73 FTLKISR 79
 Query Match
Best Local Similarity
Matches 7; Conserv
 1 FTLKISR 7
 NCBI_TaxID=10090;
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 RESULT 14

KV2A HUMAN

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DT 21-UUL

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 Gaps
 01-JAN-1988 (Rel. 06, Created)
01-JAN-1988 (Rel. 06, Last sequence update)
15-JUL-1999 (Rel. 38, Last annotation update)
15-Mappa chain V-II region GM607 precursor (Fragment).
Homo sapiens (Human).
Bukaryota, Metazoa; Chordata, Craniata; Vertebrata; Buteleostomi;
Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
 SEQUENCE FROM N.A.
MEDLINE=84191506; PubMed=6325927;
Klobeck H.G., Solomon A., Zachau H.G.;
"Contribution of human V kappa II germ-line genes to light-chain
 ·
0
 Ig kappa chain V-II region GM607. Framework-1. Complementarity-determining-1.
 Score 33; DB 1; Length 117;
Pred. No. 6.2;
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 Framework-3.
Complementarity-determining-3.
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 EMBL, Z000099, -; NOT_ANNOTATED_CDS.
PIR, A01889; KZHUGM.
HSSP; Q99M37; II91.
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GO; GO:0005576; C:extracellular; NAS.
GO; GO:0005576; P:amtigen binding; NAS.
InterPro; IPROOT10; Ig-like.
InterPro; IPROOT10; Ig-like.
Ffam; PF00047; ig; 1.
SMART; SM00406; IGv; 1.
FROSITE; PS50835; IG_LIKE; 1.
Immunoglobulin V region; Signal.
 Framework-2.
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 Query Match
Best Local Similarity 100...
7; Conservative
STANDARD;
 diversity.";
Nature 309:73-76(1984).
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117
117 AA;
 FTLKISR 86
 1 FTLKISR 7
 Job time : 193 secs
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Anti-huma Hybrid hu OF7K.7 VK

VΚ Antibody

VK005

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AAB12711
AAB06969
AAB06969
AAB06960
AAB06969
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ABJ18695
4, 2004, 06:45:39; Search time 156 Seconds (without alignments) 16.097 Million cell updates/sec
 GenCore version 5.1.6
(c) 1993 - 2004 Compugen Ltd.
 Total number of hits satisfying chosen parameters:
 2002273 seqs, 358729299 residues
 - protein search, using sw model
 BLOSUM62
Gapop 10.0 , Gapext 0.5
 US-09-712-819D-6
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 November
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Mouse ger Mouse ger Mouse ger Mouse ger Mouse ger Murine 1D

Adj80416
Aar72067
Aar127016
Aae12711
Aae06959
Aae06962
Aae06962
Aae06963
Aae06963
Aae06963
Aae06963
Aae06963
Aae06969
Aae06969

Mouse ger Mouse ger Mouse ger Humanised

Human A3/ Human A17 Mucin 1 ( Antibody

Abj18695

# ALIGNMENTS

Monoclonal antibody; MAb; LO-CD2a; humanised antibody; CD2 antigen; human lymphocyte; immune response; chimeric; graft-versus-host disease; T-cell; transplant rejection; autoimmune disease; HUM5400. Framework 3 region of human V kappa gene HUM5400, AAW79207 standard; protein; 32 AA. (UYLO-) UNIV CATHOLIQUE LOUVAIN, 93US-000119032. 93US-00119032. 95US-00407009. 95US-00472281, (first entry) Bazin H; 05-MAR-1993; 09-SEP-1993; 29-MAR-1995; 21-DEC-1998 Homo sapiens 07-JUN-1995; JS5817311-A. 06-OCT-1998 Latinne D, AAW79207; 

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Murine de Human imm

Human

Abp62672 1 Abp62674 1 Aau70400 1 Aau70440 Aau70440 Adm08541

Aaw79207 Framework Aab86295 Murine de

AAW79207

DB

Length

Query Match

Score

No.

Result

Human lig Mouse lig Canine im Canine im Human CD4 Human CD4

Human ant Human ant

Adm08539 (Ad193640 Ad19354 Ad19354 Add31286 Abd30477 Abg30479 Abg30479 Aar80082 Aar80082

ADM0853 ADM08539 ADL93564 ADL93554 ADG31286 ABG30477 ABG30479 AAR90082 AAR80082 AAR80082 AAR80082 AAR80082 AAR80082 AAR80082

Human ant Homologou

WPI; 1998-556337/47.

Inhibition of T-cell mediated immune response with anti-CD2 monoclonal antibody LO-CD2a - used for preventing transplant rejection or for treating graft-versus-host disease or auto-immune diseases.

Hypercalc Partial p Anti-huma

AAY56670 ADC99843

ADK18941 ADK18899

ADF09885

Anti-huma

Adc99843 Add05447 Add05447 Add18941 Adk18899 Adk18899 Adk18899 Adk18899 Adk18899 Adk18899 Adk18899 Adk18899 Adk18899 Adk18899 Adk18899 Adk18899 Adk18899 Adk18899 Adk18899 Adk18899 Adk18899 Adk18899 Adk18899 Adk18899 Adk188899 Adk188889 Adk188889 Adk188889 Adk188889 Adk188889 Adk188888 Adk18888 Mouse der Human mAb

Abr55905 Abr55889 Aar27009 Aay56670

Human mAb

# RESULT 1 AAW79207

100% 45 summaries

Post-processing: Minimum Match 0% Maximum Match 100 Listing first 45

seq length: 0 seq length: 2000000000

Minimum DB Maximum DB

Scoring table:

Searched:

Perfect score:

Sequence:

OM protein

Run on:

A\_Geneseq 23Sep04:\* geneseqp1980s:\* geneseqp1990s:\*

Database

geneseqp2000s:\* geneseqp2001s:\* geneseqp2002s:\* geneseqp2003as:\*

geneseqp2004s:\*

2002273

Example 7; Col 33-34; 96pp; English.

This represents the amino acid sequence of the framework 3 region of human V kappa gene HUM5400. This is used to consruct a humanised antibody LO-CD2a. The invention relates to the use of the monoclonal antibody antibody io-CD2a or a humanised or a chimeric version of the LO-CD2a antibody for the inhibition of a T-cell mediated immune response in a patient. The MAD LO-CD2a (produced by hybridoma cell line ATCC HB 11423) can bind to an epitope on the CD2 antigen of the human lymphocytes. The T-cell mediated immune response in a patient can be inhibited by administering the MAD LO-CD2a or an antibody that binds to the same human Lymphocyte epitope as LO-CD2a. The method is used for preventing

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Gaps

0

Indels

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Best Loc Matches

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8888

AAB86295 RESULT

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Virucide; human; immunopolypeptide; immunopeptide; envelope glycoprotein; nonstructural protein; hepatitis C virus; HCV; E2 glycoprotein;
 The present invention relates to human immunopolypeptides, produced by a phage transfected cell library. The present sequence is one such fimunopolypeptide. The immunopolypeptides have binding specificty for envelope glycoprotein E2 and nonstructural protein N83 of hepatitis c virus (HCV). E2 glycoprotein is believed to be responsible for target coell binding and contains neutralising epitopes, while N83 is thought to be involved in the replication of HCV. The immunopolypeptides are useful for diagnosing and treating a patient having or suspected to be having
 New human immunopolypeptide with binding specificity for certain envelope glycoproteins and nonstructural proteins of hepatitis C virus (HCV), for diagnosing or treating patients having or suspected of having HCV
 Human immunopeptide to HCV E2 glycoprotein framework sequence #180.
 h
Similarity 100.0%; Score 33; DB 5; Length 32;
7; Conservative 0; Mismatches 0; Indels
 Mismatches
 Fox
 Burton DR,
 ABP62674 standard; peptide; 32 AA.
 ABP62672 standard; peptide; 32 AA.
 Claim 4; Fig 17; 308pp; English
 ..
0
 nonstructural protein; hepati
NS3 protein; viral infection.
 26-JAN-2001; 2001US-0264451P.
 25-JAN-2002; 2002WO-US002303.
 (first entry)
 (first entry)
 7; Conservative
 (SCRI) SCRIPPS RES INST
 Jones IM,
 WPI; 2002-599801/64.
 21
 21
 Query Match
Best Local Similarity
Matches 7; Conserv
 1 FTLKISR 7
 1 FTLKISR 7
 FTLKISR
 Sequence 32 AA;
 WO200259340-A1.
 Homo sapiens.
 10-OCT-2002
 Maruyama T,
 01-AUG-2002.
 10-OCT-2002
 infection
 ABP62674;
 15
 Matches
 ABP62674
 ABP62672
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 This invention describes novel antibodies (Ab) in which the variable region (VR) of at least one chain and/or the VR of at least one heavy chain includes at least one of 7 specified sequences, or fragments of these sequences, or contain at least one light chain and/or heavy chain encoded by specific nucleic acid sequences (I) and (II), reproduced, or their fragments. The produces of the invention have antitumor and immunomodulatory activity. Ab, or other antibodies that recognize the same antigen, are used: (i) to identify cognate antigens; (ii) for specific labeling of plasma cells (PC), for identification or separation, e.g. in an extracorporeal system; (iii) for generating additional antibodies able to label PC; and (iv) for treating autoimmune diseases and/or tumors, e.g. multiple myeloma, lymphoma and/or plastocytoma. Ab are specific for mature PC, i.e. they do not recognize precursor stages, even though these precursors are used as immunogens. As therapeutic demontherapeutic agents. This sequence represents the wue-1 antibody variable region light chain PW-3 fragment described in the method of the
 ·.
 Antibody; Wue-1; variable region; light chain; heavy chain; antitumor; immunomodulatory; cognate antigen identification; autoimmune disease; tumor; multiple myeloma; lymphoma; plastocytoma; FW-3.
transplant rejection or for treating graft-versus-host disease or for treating autoimmune diseases
 Gaps
 New antibodies specific for plasma cells, useful for treatment and diagnosis of autoimmune diseases and plasma cell tumors.
 .
 Murine derived antibody Wue-1 light chain variable region FW-3.
 DB 4; Length 32;
 2; Length 32;
 0; Indels
 Score 33; DB 4
Pred. No. 3.7;
 / Match 100.0%; Score 33; DB 2 Local Similarity 100.0%; Pred. No. 3.7; nes 7; Conservative 0; Mismatches
 AAB86295 standard; peptide; 32 AA.
 Greiner A;
 Claim 1; Page 10; 18pp; German.
 100.0%;
 (MUEL/) MUELLER-HERMELINK H K. (GREI/) GREINER A.
 99DE-01062583
 99DE-01062583
 Mueller-Hermelink HK,
 WPI; 2001-426596/46
 Query Match
Best Local Similarity
 15 Frikisk 21
 <u>r</u>
 FTLKISR
 Sequence 32 AA;
 Sequence 32 AA;
 DE19962583-A1
 23-DEC-1999;
 23-DEC-1999;
 13-SEP-2001
 28-JUN-2001
 AAB86295;
 Query Match
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RI;

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Gaps

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immunopolypeptide; immunopeptide; envelope glycoprotein; otein; hepatitis C virus; HCV; E2 glycoprotein;
 New human immunopolypeptide with binding specificity for certain envelope glycoproteins and nonstructural proteins of hepatitis C virus (HCV), for diagnosing or treating patients having or suspected of having HCV
 The present invention relates to human immunopolypeptides, produced by a phage transfected cell library. The present sequence is one such immunopolypeptides are binding specificty for envelope glycoprotein E2 and nonstructural protein NS3 of hepatitis C virus (HCV). E2 glycoprotein is believed to be responsible for target oell binding and contains neutralising epitopes, while NS3 is thought to be involved in the replication of HCV. The immunopolypeptides are useful HCV infection
 Immunoglobulin, antibody, light chain, heavy chain, CDR, FR, complementarity determining region, framework region, IGBP, transgenic plant, immunoglobulin binding protein array, IGM, IGG, IGA,
 Gaps
Human immunopeptide to HCV E2 glycoprotein framework sequence #182.
 .
0
 Score 33; DB 5; Length 32;
Pred. No. 3.7;
 0; Indels
 Human light chain immunoglobulin framework region 3 #2.
 Fox RI;
 0; Mismatches
 IgD; IgE; IgY; IgM; kappa; lambda; CHBP
 Burton DR,
 AAU70400 standard; peptide; 32 AA.
 Claim 4; Fig 17; 308pp; English
 100.0%;
 nonstructural protein; hepati
NS3 protein; viral infection.
 25-JAN-2002; 2002WO-US002303
 26-JAN-2001; 2001US-0264451P
 02-MAY-2001; 2001WO-US014349.
 (first entry)
 (SCRI) SCRIPPS RES INST
 7; Conservative
 Jones IM,
 WPI; 2002-599801/64.
 FILKISR 21
 Best Local Similarity
 1 FTLKISR 7
 Virucide; human;
 WO200259340-A1.
 Sequence 32 AA;
 WO200183806-A1
 Homo sapiens
 01-AUG-2002
 Maruyama T,
 14-FEB-2002
 08-NOV-2001
 infection
 15
 AAU70400;
 Query Match
 Ношо
 Matches
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The invention relates to transforming a population of cells (e.g. plant cells), comprising using a library of two different polymucleotides encoding different immunoglobulin binding protein (TgBP) polymeptides that specifically bind to a ligand or form one or more disulphide bonds with polypeptides in transfected cells, to generate an IgBP that binds to a ligand, and transformed plant cells are selected, and preparing an IgBP carray in plant cells. At least one peptide sequence has at least 75% sequence identity to a framework region (FR) of a native IgM, IgA, IgA, IgB, IgY, Kappa or lambda immunoglobulin molecule. The method is useful for preparing an immunoglobulin binding protein array, preferably heavy chain binding protein (CHBP) array in eukaryotic cells especially plant cells (e.g. Agrobacterium tumefaciens or maize) or other eukaryotic cells (e.g. screening assays of IgBPs having desired discovery of e.g. screening assays of IgBPs having desired characteristics. The present sequence is a mammanian immunoglobulin cervice derived peptide that may be incorporated into an IgBP of the invention
 Preparing immunoglobulin binding protein array in plant cells by transforming the cells with different polynucleotides encoding binding protein polypeptides specific to ligand, selecting plant cells for
 Immunoglobulin, antibody, light chain; heavy chain, CDR; FR, complementarity determining region; framework region; IgBP; transgenic plant; immunoglobulin binding protein array; IgM; IgG; IgA; IgB; IgY; IgM; Rappa; lambda; GHBP.
 Gaps
 ..
 100.0%; Score 33; DB 5; Length 32; 100.0%; Pred. No. 3.7; ive 0; Mismatches 0; Indels
 Mouse light chain immunoglobulin framework region 3 #2.
 0;
 Disclosure, Fig 1A; 129pp; English.
 AAU70440 standard; peptide; 32 AA.
 02-MAY-2000; 2000US-00563222
 02-MAY-2001; 2001WO-US014349.
 02-MAY-2000; 2000US-00563222
 (BPIC-) EPICYTE PHARM INC
 14-FEB-2002 (first entry)
 (EPIC-) EPICYTE PHARM INC.
 7; Conservative
 WPI; 2002-055482/07
 Hein MB;
 FTLKISR 21
 FTLKISR 7
 Local Similarity
 Hiatt AC, Hein MB;
 preparing array
 Sequence 32 AA;
 WO200183806-A1.
 Mus musculus
 08-NOV-2001
 Hiatt AC,
 AAU70440;
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 15
 Query Match
 Matches
 AAU70440
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WPI; 2002-055482/07

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The invention relates to transforming a population of cells (e.g. plant cells), comprising using a library of two different polynucleotides encoding different immunoglobulin binding protein (1989) polypeptides that specifically bind to a ligand or form one or more disulphide bonds with polypeptides in transfected cells, to generate an 1989 that binds to a ligand, and transformed plant cells are selected, and preparing an 1989 carray in plant cells. At least one peptide sequence has at least 75% sequence identity to a framework region (FR) of a native 19%, 194, 195, 197, kappa or lambda immunoglobulin molecule. The method is useful for preparing an immunoglobulin binding protein array, preferably heavy chain binding protein (GRBP) array in eukaryotic cells especially plant cells (e.g. Agrobacterium tumefaciens or maize) or other eukaryotic cells (e.g. insect cells or mammalian cells). The CRBP is useful for discovery of e.g. screening assays of 198Ps having desired characteristics. The present sequence is a mammalian immunoglobulin characteristics. The present sequence is a mammalian immunoglobulin
 canine heavy and light chain variable domain polypeptides, useful for
 canine; dog; heavy; immunoglobulin; antibody light chain variable domain; antiallergic; allergy; IgB; gene therapy; kappa subgenus; VL framework;
 Preparing immunoglobulin binding protein array in plant cells by transforming the cells with different polynucleotides encoding binding protein polypeptides specific to ligand, selecting plant cells for preparing array.
 The invention relates to a novel canine heavy or light chain variable domain polypeptide. The protein of the invention demonstrates
 Canine immunoglobulin kappa VL subgenus framework 3 peptide 18.
 100.0%; Score 33; DB 5; Length 32; 100.0%; Pred. No. 3.7;
 0; Mismatches
 Lawton R;
 Claim 42; Page 109; 130pp; English.
 Disclosure; Fig 1A; 129pp; English.
 ADM08541 standard; peptide; 32 AA.
 Aiyappa A,
 20-DEC-2002; 2002WO-US041362.
 21-DEC-2001; 2001US-0344874P
 (first entry)
 Query Match 100.
Best Local Similarity 100.
Matches 7; Conservative
 treating canine allergy
 (IDEX-) IDEXX LAB INC
 WPI; 2003-598521/56.
 21
 7
 Guo H,
 Canis familiaris.
 1 FTLKISR
 FTLKISR
 WO2003060080-A2
 Sequence 32 AA;
 20-MAY-2004
 24-JUL-2003
 ADM08541;
 Krah ER,
 15
 New
 RESULT
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0;
 New canine heavy and light chain variable domain polypeptides, useful for
 canine; dog; heavy; immunoglobulin; antibody light chain variable domain; antiallergic; allergy; IgB; gene therapy; kappa subgenus; VL framework;
 possibly via gene thèrapy. The current sequence is that of a canine immunoglobulin light chain variable domain framework (FR) peptide of the
 The invention relates to a novel canine heavy or light chain variable domain polypeptide. The protein of the invention demonstrates antiallergic activity and may be useful for treating canine allergy, possibly via gene therapy. The current sequence is that of a canine immunoglobulin light chain variable domain framework (FR) peptide of tinvention.
 Gaps
 Gaps
antiallergic activity and may be useful for treating canine allergy,
 Canine immunoglobulin kappa VL subgenus framework 3 peptide 16.
 0;
 ..
0
 7; Length 32;
 Query Match
Best Local Similarity 100.0%; Pred. No. 3.7;
Matches 7; Conservative 0; Mismatches 0; Indels
 Indels
 .
 Query Match 100.0%; Score 33; DB 7
Best Local Similarity 100.0%; Pred. No. 3.7;
Matches 7; Conservative 0; Mismatches
 Lawton R;
 Claim 42; Page 109; 130pp; English.
 ADL93640 standard; peptide; 32 AA.
 ADM08539 standard; peptide; 32 AA.
 20-DEC-2002; 2002WO-US041362.
 21-DEC-2001; 2001US-0344874P.
 Guo H, Aiyappa A,
 (first entry)
 treating canine allergy
 (IDEX-) IDEXX LAB INC.
 WPI; 2003-598521/56.
 21
 21
 7
 7
 1 FTLKISR
 FTLKISR
 Canis familiaris.
 1 FTLKISR
 15 FTLKISR
 WO2003060080-A2.
 Sequence 32 AA;
 Sequence 32 AA;
 20-MAY-2004
 24-JUL-2003
 invention.
 15
 ADM08539;
 Krah ER,
 ADL93640
ID ADL9
XX
 ADM08539
ID ADMO
 RESULT 9
 RESULT 8
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 Gaps
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CD44; light chain immunoglobulin variable domain;

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 The invention relates to a novel isolated protein comprising a light chain (LC) immunoglobulin variable domain sequence and a heavy chain (HC) immunoglobulin variable domain sequence that form an antigen binding site with binding affinity for the human CD44 extracellular domain and where CDR3 of the LC variable domain sequence. A protein of the invention has cytostatic, antiinflammatory, immunosuppressive, antiarthritic, antiinflammatory, immunosuppressive, antiarthritic, antiinflammatoly, therapy. The protein is useful for preparing a composition for treating inflammatory disorders, e.g., rheumatoid arthritis, lupus, restenosis, graft versus host response or multiple sclerosis or neoplastic disorder, which is a malignant or
 New protein comprising a light chain (LC) immunoglobulin variable domain aguence and a heavy chain (HC) immunoglobulin variable domain sequence, useful for preparing a composition for treating inflammatory or neoplastic disorders.
 human; CD44; light chain immunoglobulin variable domain; heavy chain immunoglobulin variable domain; immunoglobulin; cytostatic; antifanmatory; immunosuppressive; antiarthritic; antirheumatic; dermatological; vacotropic; neuroprotective; antibody therapy; inflammatory disorders; rheumatoid arthritis; lupus; restenosis; graft versus host response; multiple sclerosis; neoplastic disorder;
 metastatic cancer. The present sequence represents a framework (FR) domain of a human CD44-binding antibody of the invention.
 100.0%; Score 33; DB 8; Length 32; 100.0%; Pred. No. 3.7;
 Human CD44-binding antibody FR3-L SEQ ID NO:135.
 Disclosure; SEQ ID NO 135; 128pp; English.
 ď
 Baribault Kent
 15-SEP-2003; 2003WO-US029318,
 2002US-0410758P.
2003US-0469123P.
 Query Match
Best Local Similarity 100.v.
7; Conservative
 (first entry)
 Rondon IJ, Edge A,
 WPI; 2004-270003/25.
 (DYAX-) DYAX CORP.
 cancer; antibody
 WO2004024750-A2.
 Sequence 32 AA;
 13-SEP-2002;
09-MAY-2003;
 Homo sapiens
 17-JUN-2004
 25-MAR-2004.
ADL93640;
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ó;
 The invention relates to a novel isolated protein comprising a light chain (LC) immunoglobulin variable domain sequence and a heavy chain (HC) immunoglobulin variable domain sequence that form an antigen binding site with binding affinity for the human CD44 extracellular domain and where CDR3 of the LC variable domain sequence. A protein of the invention has cytostatic, antiinflammatory, immunosuppressive, antiarthritic, antirheumatic, dermatological, vasotropic, and neuroprotective activity, and may have a use in antibody therapy. The protein is useful for preparing a composition for treating inflammatory disorders, e.g., rheumatoid arthritis, lugus, restenosis, graft versus host response or melitiple sclerosis or neoplastic disorder, which is a malignant or metastatic cancer. The present sequence represents a framework (FR) region of a human CD44-binding antibody.
 New protein comprising a light chain (LC) immunoglobulin variable domain sequence and a heavy chain (HC) immunoglobulin variable domain sequence, useful for preparing a composition for treating inflammatory or neoplastic disorders.
heavy chain immunoglobulin variable domain, immunoglobulin, cytostatic, antificammatory; immunosuppressive; antiarthritic; antirheumatic; dermatological; vasotropic; neuroprotective; antibody therapy; inflammatory disorders; rheumatoid arthritis; lupus; restenosis; graft versus host response; multiple sclerosis; neoplastic disorder;
 1A1; monocyte chemotactic protein; beta-chemokine family; glomerulonephritis; scleroderma; cirrhosis; multiple sclerosis; lupus nephritis; atherosclerosis; inflammatory bowel disease; rheumatoid arthritis; inflammatory disease; fibrotic discorder; cancer; immunopathological disorder; antiarteriosclerotic; antiarthritic;
 Gaps
 ·,
 antiinflammatory; antirheumatic; cytostatic; dermatological;
 Humanised murine 1A1 light chain antibody peptide SeqID 52.
 8; Length 32;
 Indels
 .;
0
 100.0%; Score 33; DB 8
100.0%; Pred. No. 3.7;
ive 0; Mismatches
 Disclosure; SEQ ID NO 49; 128pp; English.
 Baribault Kent
 ADQ31286 standard; peptide; 37 AA.
 15-SEP-2003; 2003WO-US029318,
 13-SEP-2002; 2002US-0410758P.
 2003US-0469123P
 (first entry)
 Conservative
 Rondon IJ, Edge A,
 Query Match
Best Local Similarity
7; Conserve
 WPI; 2004-270003/25
 21
 7
 (DYAX-) DYAX CORP.
 cancer; antibody
 FTLKISR
 1 FTLKISR
 WO2004024750-A2
 Sequence 32 AA;
 Homo sapiens
 09-MAY-2003;
 25-MAR-2004.
 09-SEP-2004
 ADQ31286;
 RESULT 11
 ADQ31286
 셤
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Gaps

..

0; Indels

Mismatches

0;

Human CD44-binding antibody H10 VLC FR3 SEQ ID NO:49.

(first entry)

17-JUN-2004

ADL93554;

ADL93554
ID ADL9
XX
AC ADLS
XX
DT 17-c
XX
DE Hume

ADL93554 standard; peptide; 32 AA.

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RESULT 10

FTLKISR FTLKISR Donnelly JJ;

Wang C, Yoshihara C,

Chu K,

(CHIR ) CHIRON CORP

WPI; 2002-405169/43.

02-OCT-2001; 2001WO-US030857. 02-OCT-2000; 2000US-0237556P.

WO200228904-A2.

11-APR-2002

Homo sapiens.

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This invention relates to an antibody for treating or preventing disorders associated with detrimental monocyte chemotactic protein (MCP) activity. Specifically, it refers to humanised antibodies that bind to members of the beta-chemokine family (of which MCP-1, MCP-2 and MCP-3 belong) and in particular antibodies that have been modelled on, and modified from, the variable complementarity determining regions (CDRs) of the murine 11K2 and 1A1 immunoglobulin sequences. The present invention describes using these antibodies to treat or prevent diseases and disorders including glomerulonephritis, scleroderma, cirrhossis, multiple sclerosis, lupus nephritis, atherosclerosis, inflammatory bowel diseases, rheumatoid arthritis, inflammatory diseases, fibrotic disorders, cancer and immunopathological discrders. Accordingly, they can be used in the development of pharmaceutical compositions that exhibit antitheumatic, antiarteriosclerotic, antiarthritis, antiart
 ó
hepatotropic; immunomodulator; nephrotropic; neuroprotective; mouse; MCP;
 New antibodies against monocyte chemotactic proteins (MCP), useful for treating or preventing disorders associated with detrimental MCP activity, e.g. glomerulonephritis, scleroderma, multiple sclerosis, or atherosclerosis.
 Human; light chain; CD40; autoimmune disease; multiple sclerosis; systemic lupus erythematosus; psoriasis; inflammatory bowel disease; crohn's disease; rheumatoid arthritis; organ rejection; lymphoma; non-Hodgkin's lymphoma; monoclonal antibody; B cell; glycoprotein; proliferation.
 Saldanha JW;
 Gaps
 ·
0
 DB 8; Length 37;
 0; Indels
 Human anti-CD40 monoclonal antibody 5H7 light chain #2.
 Garber E, Reid C,
 Query Match 100.0%; Score 33; DB 8
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 7; Conservative 0; Mismatches
 Disclosure; SEQ ID NO 52; 200pp; English.
 De Fougerolles AR, Kotelianski VE,
Van Vlijmen H;
 ABG30477 standard; protein; 50 AA.
 25-NOV-2003; 2003WO-US037834.
 27-NOV-2002; 2002US-0430007P
 BIOG-) BIOGEN IDEC MA INC.
 (first entry)
 murine; humanised antibody
 WPI; 2004-461110/43.
 1 FILKISR 7
 FTLKISE
 WO2004050836-A2.
 Sequence 37 AA;
 07-OCT-2002
 musculus
 17-JUN-2004.
 ABG30477;
 Synthetic
 RESULT 12
 ABG30477
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The invention relates to a human monoclonal antibody or fragment capable of specifically binding to a human CD40 antigen (a glycoprotein expressed on the surface of human B cells), where the antibody or fragment is free of significant agonistic activity when it binds to the CD40 antigen, and the growth or differentiation is inhibited. The fragments comprise the complementarity determining region (CDR) of the light and heavy chains of the monoclonal antibodies secreted by a hybridoma consisting of 15BB, and antibody (or fragments). The antibodies or fragments are used for inhibiting proliferation, growth or differentiation of a normal human B cells and to inhibit antibody production by B cells. They may also be useful for treating autoimmune diseases, such as systemic lupus cythematosus, psoriasis, multiple sclerosis, inflammatory bowel disease (Crohn's disease), rheumatoid arthritis, and lymphoma (especially Non-Groother anti-CD40 antibody) light chain
 ö
 A human anti-CD40 monoclonal antibody or fragment useful for inhibiting proliferation, growth or differentiation of a normal human B cells and treating autoimmune disease such as rheumatoid arthritis or systemic
 Gaps
 Human; light chain; CD40; autoimmune disease; multiple sclerosis; systemic lupus erythematosus; psoriasis; inflammatory bowel disease; Crohn's disease; rheumatoid arthritis; organ rejection; lymphoma; non-Hodgkin's lymphoma; monoclonal antibody; B cell; glycoprotein;
 .
0
 100.0%; Score 33; DB 5; Length 50; 100.0%; Pred. No. 5.8;
 0; Indels
 Human anti-CD40 monoclonal antibody 9F7 light chain #2.
 0; Mismatches
 ABG30478 standard; protein; 50 AA.
 Claim 1; Fig 5; 75pp; English.
 (first entry)
 Best Local Similarity 100.
Matches 7; Conservative
 lupus erythematosus.
 15 FTLKISR 21
 1 FTLKISR 7
 Sequence 50 AA;
 WO200228904-A2.
 proliferation.
 Homo sapiens.
 07-OCT-2002
 11-APR-2002.
 ABG30478;
 Query Match
 ABG30478
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The invention relates to a human monoclonal antibody or fragment capable of specifically binding to a human CD40 antigen (a glycoprotein expressed on the surface of human B cells), where the antibody or fragment is free of significant agonistic activity when it binds to the CD40 antigen, and the growth or differentiation is inhibited. The fragments comprise the complementarity determining region (CDR) of the light and heavy chains of the monoclonal antibodies secreted by a hybridoma consisting of 15B8, 20C4, 12D9, 9F7 and 13E4. Also included are the nucleic acids encoding the antibody (or fragments). The antibodies or fragments are used for inhibiting proliferation, growth or differentiation of a normal human B useful for treating autoimmune disease, such as systemic lupus.
 erythematosus, psoriasis, multiple sclerosis, inflammatory bowel disease (Crohn's disease), rheumatoid arthritis, and lymphoma (especially Non-Hodgkin's Lymphoma). The present sequence represents the antibody 977
 A human anti-CD40 monoclonal antibody or fragment useful for inhibiting proliferation, growth or differentiation of a normal human B cells and treating autoimmune disease such as rheumatoid arthritis or systemic
 Donnelly JJ;
 Claim 1; Fig 5; 75pp; English.
 Yoshihara C,
 02-OCT-2001; 2001WO-US030857.
 02-OCT-2000; 2000US-0237556P
 WPI; 2002-405169/43.
 lupus erythematosus
 Wang C,
 (CHIR) CHIRON
 Chu K,
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Gaps ; Score 33; DB 5; Length 50; Pred. No. 5.8; 0; Indels Mismatches . 100.0%; 7; Conservative Query Match Best Local Similarity Sequence 50 AA; Matches

; 0

FTLKISR 21 FTLKISR 7 Н 15

ò 엄 ABG30479 standard; protein; 50 ABG30479; 

AA.

Human anti-CD40 monoclonal antibody 15B8 light chain #2. (first entry) 07-OCT-2002

Human; light chain; CD40; autoimmune disease; multiple sclerosis; systemic lupus erythematosus; psoriasis; inflammatory bowel disease; Crohn's disease; rheumatoid arthritis; organ rejection; lymphoma; non-Hodgkin's lymphoma; monoclonal antibody; B cell; glycoprotein; proliferation

Homo sapiens

WO200228904-A2.

11-APR-2002.

02-OCT-2001; 2001WO-US030857

02-OCT-2000; 2000US-0237556P

(CHIR ) CHIRON CORP.

'note= "Amino acid involved in tertiary structure"

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The invention relates to a human monoclonal antibody or fragment capable of specifically binding to a human CD40 antigen (a glycoprotein expressed on the surface of human B cells), where the antibody or fragment is free of significant agonistic activity when it binds to the CD40 antigen, and the growth or differentiation is inhibited. The fragments comprise the complementarity determining region (CDR) of the light and heavy chains of the monoclonal antibodies secreted by a hybridoma consisting of 15B8, 20C4, 12D9, 9F7 and 13E4. Also included are the nucleic acids encoding the antibody or fragments). The antibodies or fragments are used for inhibit thing proliferation, growth or differentiation of a normal human B cells and to inhibit antibody production by B cells. They may also be useful for treating autoimmune diseases, such as systemic lupus crythematosus, psoriasis, multiple sclarosis, inflammatory bowel disease (crohm's disease), rheumatoid arthritis, and lymphoma (especially Non-lick, Antibody 15B8) and the present sequence represents the antibody 15B8
 IOR-R3; monoclonal antibody; human; mouse; light chain; homology; variable region; epidermal growth factor receptor; hybridoma; framework; cloning; computer; algorithm; immunogenicity; site-directed mutagenesis; T-lymphocyte epitope; tertiary structure; point mutation; antibody engineering; protein engineering; humanised antibody;
 A human anti-CD40 monoclonal antibody or fragment useful for inhibiting proliferation, growth or differentiation of a normal human B cells and treating autoimmune disease such as rheumatoid arthritis or systemic
 Gaps
 Homologous sequences to antibody IOR-R3 variable region light chain.
 7. .25
'note= "Amino acids involved in tertiary structure"
 'note= "Amino acids involved in tertiary structure"
 /note= "Amino acid involved in tertiary structure"
 'note= "Amino acid involved in tertiary structure"
 'note= "Amino acid involved in tertiary structure"
 ;
 100.0%; Score 33; DB 5; Length 50; 100.0%; Pred. No. 5.8;
 0; Indels
 Donnelly JJ;
 Mismatches
 Location/Qualifiers
 AAR92994 standard; protein; 81 AA.
 ;
 Yoshihara C,
 Claim 1; Fig 5; 75pp; English.
 cancer; therapy
 (first entry)
 Conservative
 39
 (revised)
 WPI; 2002-405169/43.
 lupus erythematosus
 15 FTLKİSR 21
 FTLKISR 7
 Local Similarity
 Wang C,
 Sequence 50 AA;
 sapiens
 25-MAR-2003
18-MAY-1996
 antitumour;
 AAR92994;
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 Query Match
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The sequence represents residues from a human immunoglobulin with homology to the light chain variable region from monoclonal antibody IOR-homology to the light chain variable region from monoclonal antibody IOR-sequence is growth factor receptor, produced by a mouse hybridoma. The sequence is partial, and complementarity determining regions are omitted. The sequence is isolated by comparison of human and mouse immunoglobulins and analysis for T-lymphocyte antigenic sequences using a computer algorithm. Residues not within a complementarity determining region, canonical structure or Vernier zone may be modified to reduce immunogenicity in humans (e.g. in sequence AAR92995). This method, which involves the introduction of only a few point mutations into T-cell epitope coding regions, is generally capplicable in humanisation of mouse antibodies. The resulting humanised antibodies may be used e.g. as antitumour agents. They retain the antigen recognition of the original antibody, but are not immunogenic in humans. (Updated on 25-MAR-2003 to correct PI field.)
 Identifying interspecies differences in amino acid sequence of Ig T-cell epitopes - by sequence comparison, also humanised antibodies contg. altered T-cell epitopes, retaining antigen specificity but not immunogenicity, esp. for tumour treatment.
 /note= "Amino acids involved in tertiary structure"
 /note= "Amino acid involved in tertiary structure"
 /note= "Amino acid involved in tertiary structure"
 Ouery Match
Best Local Similarity 100.0%; Pred. No. 9.2;
Matches 7; Conservative 0; Mismatches 0; Indels
 Rodriquez RP, Valladares JL, Mateo De Acosta Del Rio CM;
 (IMMU-) CENT IMMUNOLOGIA MOLECULAR.
 Claim 14; Fig 3; 33pp; English.
 95EP-00201752.
 94CU-00000080.
 WPI; 1996-130770/14.
 Sequence 81 AA;
 30-JUN-1994;
 27-JUN-1995;
 06-MAR-1996.
 EP699755-A2
 Region
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53 FTLKIŠR 59 g

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1 FTLKISR

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Gaps

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Search completed: November 4, 2004, 06:48:24 Job time: 158 secs

Sequence 365, A Sequence 176, A Sequence 176, A

Sequence 19, Appl Sequence 21, Appl Sequence 22, Appl Sequence 23, Appl Sequence 24, Appl Sequence 26, Appl Sequence 26, Appl Sequence 28, Appl Sequence 28, Appl Sequence 29, Appl Sequence 29, Appl Sequence 30, Appl Sequence 75, Appl Sequence 75, Appl Sequence 76, Appl

Sequence Sequence Sequence

Sequence Sequence

Sequence Sequence

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Minimum DB Maximum DB

Database

Perfect score:

Sequence:

OM protein

Run on:

Scoring table:

Sequence Sequence Sequence

Seguence Sequence Sequence Sequence Seguence

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Sequence 80, Application US/09563222

Publication No. US20030079253A1

GENERAL INFORMATION:

APPLICANT: Hein, Madrew

APPLICANT: Hein, Madrew

TITLE OF INVENTION: IMMUNOGLOBULIN BINDING PROTEIN ARRAYS IN

TITLE OF INVENTION: EUKARYOTIC CELLS

TITLE REPRENCE: 310098.406

CURRENT APPLICATION NUMBER: US/09/563,222

CURRENT PILING DATE: 2000-05-02

NUMBER OF SEQ ID NOS: 197

SOFTWARE: FRACESQ for Windows Version 4.0

SEQ ID NO 80

LENGTH: 32

TYPE: BRT

CREANISM: Homo sapien

US-09-563-222-80
 Query Match

100.0%; Score 33; DB 10; Length 32;
Best Local Similarity 100.0%; Pred. No. 6.1;
Matches 7; Conservative 0; Mismatches 0; Indels
i US-10-041-860-365
i US-10-36-817-176
i US-10-453-698-176
US-09-822-698A-19
US-09-840-459-21
US-09-840-459-22
US-09-840-459-22
US-09-840-459-22
US-09-840-459-25
US-09-840-459-26
US-09-840-459-26
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1 US-10-194-860-280
2 US-10-041-860-280
2 US-10-041-860-280
2 US-10-041-860-280
2 US-10-308-817-23
 ALIGNMENTS
 US-09-563-222-120

Sequence 120, Application US/09563222

Publication No. US20030079253A1

GENERAL INFORMATION:
APPLICANT: Hiatt, Andrew

APPLICANT: Hein, Mich B.
 FTLKISR 21
 1 FTLKISR 7
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 US-09-563-222-80
 RESULT 2
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 Sequence 80, Appl
Sequence 120, App
Sequence 71, Appl
Sequence 5, Appli
Sequence 135, Appl
Sequence 385, App
Sequence 385, App
Sequence 386, Appl
Sequence 80, Appl
Sequence 114, Appl
Sequence 61, Appl
Sequence 61, Appl
Sequence 281, Appl
 4, 2004, 06:51:47; Search time 142 Seconds (without alignments) 17.413 Million cell updates/sec
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 Description
 /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.
 GenCore version 5.1.6
(c) 1993 - 2004 Compugen Ltd.
 US-09-563-222-80
US-09-563-222-120
US-10-168-809-57
US-10-663-244-49
US-10-663-244-49
US-10-327-598-385
US-10-327-598-385
US-10-327-598-385
US-10-732-598-385
US-10-732-598-385
US-10-732-598-385
US-10-732-598-385
US-10-732-598-385
 Total number of hits satisfying chosen parameters:
 1566620 seqs, 353225886 residues
 Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
 protein search, using sw model
 BLOSUM62
Gapop 10.0 , Gapext 0.5
 length: 0
length: 2000000000
 US-09-712-819D-6
33
 Copyright
 Query
Match Length
 1 FTLKISR 7
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1000.00
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Gaps

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US-10-041-860-281 US-10-041-860-323

Score

Result

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RESULT 5
US-10-663-244-49
 US-10-168-809-5
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0
 Gaps
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IMMUNOGLOBULIN BINDING PROTEIN ARRAYS IN EUKARYOTIC CELLS
 APPLICATION NUMBER: 08/976,288

FILING DATE: CURKNOWN:
APPLICATION NUMBER: 07/977,696
FILING DATE: No. US20030138428Alember 16, 1992
ATORNEY/AGENT INFORMATION:
NAME: Viviana Amzel Ph.D.
REGISTRATION NUMBER: 96,939
REFERENCE/DOCKET NUMBER: 96639938
TELECOMMUNICATION INFORMATION:
TELECOMMONICATION INFORMATION:
TELECOMMONICATION INFORMATION:
 Length 32;
 and Kit and
 RESULT 3
US-09-47-839-71
| Sequence 71, Application US/09947839
| Publication No. US20030138428A1
| Publication No. US20030138428A1
| GENERAL INFORMATION:
| APPLICANT: do Couto Dr., Fernando J.R.
| Peterson Dr., Borry A.
| Padlan Dr., Eduardo A.
| Padlan Dr., Eduardo A.
| TITLE OF INVENTION: Analogue Peptides With Broad
| Diagnostic Vaccination and Therapeutic Methods
 Indels
 MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/WM-DOS 5.0
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/947,839
 CORRESPONDENCE ADDRESS:
ADDRESSEE: Pretty, Schroeder & Poplawski
STREET: 444 South Flower St., 19th Floor
 100.0%; Score 33; DB 10;
100.0%; Pred. No. 6.1;
1ive 0; Mismatches 0;
 TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 71:
 TITLE OF INVENTION: IMMUNOGLOBULIN BINDING TITLE OF INVENTION: EUKRAYOTIC CELLS FILE REFERENCE: 310098.406 CURRENT APPLICATION NUMBER: US/09/563,222 CURRENT FILING DATE: 2000-05-02 NUMBER OF SEQ ID NOS: 197 SOFTWARE: FastSEQ for Windows Version 4.0
 FILLING DATE: 06-Sep-2001
CLASSIFICATION: <Unknown>
R APPLICATION DATA:
 TELEFAX: (213) 489-4210
 LENGTH: 32 amino acids
 0
 MATION FOR SEQ ID NO: 71:
SEQUENCE CHARACTERISTICS:
 COMPUTER READABLE FORM:
 CITY: Los Angeles
STATE: California
 Best Local Similarity 100.
Matches 7; Conservative
 COUNTRY: USA
 ORGANISM: Mus musculus
 15 FTLKISR 21
 1 FTLKISR 7
 INFORMATION FOR
 US-09-947-839-71
 US-09-563-222-120
 SEQ ID NO 120
 PRIOR
 TYPE: PRT
 Query Match
 LENGTH
 RESULT 3
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 0;
 OTHER INFORMATION: Description of Artificial Sequence: synthetic hybrid, OTHER INFORMATION: natural origin
 Gaps
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0
 0
 100.0%; Score 33; DB 14; Length 32; 100.0%; Pred. No. 6.1;
DB 10; Length 32;
 Indels
 Indels
 ; OTHER INFORMATION: Synthetically generated peptide US-10-663-244-49
 APPLICANT: KUFER, PETER
TITLE OF INVENTION: ANTIBODIES AGAINST PLASMA CELLS
FILE REFERENCE: 009848-0272298
 ;
0
 0;
 US-10-68-2244-9, Application US/10663244

Publication No. US20040110933A1

GENERAL INFORMATION:
APPLICANT: Rondon, Isaac J.
APPLICANT: Refe, Rachel Baribault
APPLICANT: Refe, Rachel Baribault
TILLE OF INVENTION: CD4 LIGANDS
FILE REFERENCE: 10280-063001
CURRENT APPLICATION NUMBER: US/10/663,244
CURRENT FILING DATE: 2003-09-13
FRIOR PELICATION NUMBER: US 60/469,123
PRIOR FILING DATE: 2002-09-13
PRIOR FILING DATE: 2002-09-13
PRIOR FILING DATE: 2003-06-13
PRIOR FILING DATE: 2003-06-09
NUMBER OF SEQ ID NOS: 165
SOFTWARE: FRASESEQ for Windows Version 4.0
SERVICE 132
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 CURRENT APPLICATION NUMBER: US/10/168,809
CURRENT FILING DATE: 2002-06-21
PRIOR APPLICATION NUMBER: US/10/13238
PRIOR FILING DATE: 1999-12-23
PRIOR FILING DATE: 1999-12-23
NUMBER OF SEQ ID NOS: 22
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO S
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 100.0%; Score 33;
100.0%; Pred. No.
 0S-10-168-809-5
; Sequence 5, Application US/10168809
; Publication No. US20030180799A1
; GENERAL INFORMATION:
; APPLICANT: Muller-Hermelink, Hans Konrad
 ..
 TYPE: PRT
ORGANISM: Artificial Sequence
 TYPE: PRT
ORGANISM: Artificial Sequence
 Query Match
Best Local Similarity 100.0
Matches 7; Conservative
 Query Match 100.
Best Local Similarity 100.
Matches 7; Conservative
 APPLICANT: GREINER, AXEL APPLICANT: DORKEN, BERND APPLICANT: BARGOU, RALF APPLICANT: KUFER, PETER
 FTLKISR 21
 1 FTLKISR 7
 15 FTLKISR 21
 1 FTLKISR 7
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APPLICANT: Krah, Eugene
APPLICANT: Krah, Eugene
APPLICANT: Guo, Honliang
APPLICANT: Guo, Honliang
APPLICANT: Ashor, Ashok
APPLICANT: Lawton, Robert
TITLE OF INVENTION: Canine Immunoglobulin Variable Domains, Caninized Antibodies, an
TITLE OF INVENTION: Cor Making and Using Them
FILE REFERENCE: 01-799-A
CURRENT APPLICATION NUMBER: US/10/327,598
CURRENT FILING DATE: 2002-12-20
PRIOR APPLICATION NUMBER: US 60/344,874
PRIOR APPLICATION NUMBER: US 60/344,874
PRIOR PILING DATE: 2001-12-1
NUMBER OF SEQ ID NOS: 1139
SOFTWARE: PatentIn Version 3.0
SEQ ID NO 389
 Sequence 80, Application US/10783950

| Publication No. US20040199945A1 |
| Publication No. US20040199945A1 |
| GENERAL INFORMATION: |
| APPLICANT: HIAT, ANDREW C. |
| APPLICANT: HIAT, ANDREW C. |
| APPLICANT: HIAT, ANDREW C. |
| APPLICANT: HIAT, ANDREW C. |
| APPLICANT: HIAT, ANDREW C. |
| APPLICANT: HIAT, ANDREW C. |
| CURRENT APPLICATION UNMER: US/10/783,950 |
| CURRENT APPLICATION NUMBER: US/09/563,222 |
| PRIOR APPLICATION NUMBER: US/09/563,222 |
| PRIOR APPLICATION NUMBER: PCT/US01/14349 |
| PRIOR FILING DATE: 2001-05-02 |
| PRIOR APPLICATION NUMBER: 09/563,222 |
| PRIOR APPLICATION NUMBER: 09/563,222 |
| PRIOR PILING DATE: 2001-05-02 |
| PRIOR PILING DATE: 2000-05-02 |
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 Length 32;
 Query Match
Best Local Similarity 100.0%; Pred. No. 6.1;
Matches 7; Conservative 0; Mismatches 0; Indels
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 0; Indels
 100.0%; Score 33; DB 16;
100.0%; Pred. No. 6.1;
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 ; Sequence 389, Application US/10327598; Publication No. US20040181039A1; GENERAL INFORMATION:
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Matches 7; Conservative
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US-10-783-950-80
 FTLKISR 21
 FILKISR 21
 1 FILKISR 7
 1 FTLKISR 7
 US-10-327-598-389
 RESULT 9
US-10-783-950-80
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 Sequence 385, Application US/10327598

Publication No. US20040181039A1

GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Krah, Eugene
APPLICANT: Alyappa, Ashok
APPLICANT: Lawton, Robert
TITLE OF INVENTION: Canine Immunoglobulin Variable Domains, Caninized Antibodies, and
TITLE OF INVENTION: Graine Immunoglobulin Variable Domains, Caninized Antibodies, and
TITLE OF INVENTION: 2010 PS-A
CURRENT APPLICATION NUMBER: US 10/10/327,598
CURRENT APPLICATION NUMBER: US 60/344,874

PRIOR APPLICATION NUMBER: US 60/344,874

PRIOR FILING DATE: 2010-12-20

PRIOR FILING DATE: 2010-12-21

NUMBER OF SEQ ID NOS: 1139

SOFTWARE: Patentin Version 3.0

SEQ ID NO 385
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0
 DB 16; Length 32;
 100.0%; Score 33; DB 16; Length 32; 100.0%; Pred. No. 6.1;
 Indels
 0; Indels
 ; OTHER INFORMATION: Synthetically generated peptide US-10-663-244-135
 0; Mismatches
 VENCULIO - 63-244-135

Sequence 135, Application US/10663244

FUDIICATION US20040110933A1

GENERAL INFORMATION: USA04

APPLICANT: Rondon, Isaac J.

APPLICANT: Rondon, Isaac J.

APPLICANT: Rondon, Isaac J.

APPLICANT: Rondon, Albert

APPLICANT: Rone, Ranchel Baribault

TILE REFERENCE: 10280-063001

CURRENT APPLICATION WUNBER: US/0/663,244

CURRENT APPLICATION WUNBER: US 60/410,758

PRIOR APPLICATION NUMBER: US 60/410,758

PRIOR APPLICATION NUMBER: US 60/469,123

PRIOR APPLICATION NUMBER: US 60/469,123

PRIOR FILING DATE: 2003-09-1

SPRIOR FILING DATE: 2
 Mismatches
 100.0%; Score 33; 100.0%; Pred. No.
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0
 ; LOCATION: (31)...(31); OTHER INFORMATION: X is Y, H, F, US-10-327-598-385
 ORGANISM: Artificial Sequence
 ORGANISM: canis familiaris;
 Query Match
Best Local Similarity 100.
Matches 7; Conservative
 Query Match
Best Local Similarity 100.
Matches 7; Conservative
 FTLKISR 21
 1 FTLKISR 7
 15 FTLKÍSK 21
 1 FTLKISR 7
 NAME/KEY: UNSURE LOCATION: (31)..
 US-10-327-598-385
 LENGTH: 32
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Sequence 323, Application US/10041860

Sequence 323, Application US/10041860

Publication No. USCU030157109A1

GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: General Application US/100A1

APPLICANT: Feng, Xiao-Chi
APPLICANT: Feng, Xiao-Chi
APPLICANT: Chen, Francine
APPLICANT: Gazit, Gadi
APPLICANT: Weber, Richard
APPLICANT: Weber, Richard
APPLICANT: Weber, Richard
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APPLICANT
 APPLICANT: Feng, Xiao
APPLICANT: Yang, Xiao-Dong
APPLICANT: Yang, Xiao-Dong
APPLICANT: Gazir, Gadi
APPLICANT: Gazir, Gadi
APPLICANT: Weber, Richard
APPLICANT: Weber, Richard
APPLICANT: Weber, Richard
TITLE OF INVENTION: THEREOF
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TITLE OF INVENTION: THEREOF
TITLE OF INVENTION: ANTIBODIES DIRECTED TO PDGFD AND USES
TITLE OF INVENTION: ANTIBODIES
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TITLE OF INVENTION: ANTIBODIES
TI
 100.0%; Score 33; DB 14; Length 99; 100.0%; Pred. No. 18;
 Indels
 0
 0; Mismatches
 LOCATION: 31
OTHER INFORMATION: Xaa = Any Amino Acid
 NAME/KEY: VARIANT
COCATION: 31
COCATION: 31
US-10-041-860-281
 US-10-041-860-281
; Sequence 281, Application US/10041860
; Publication No. US20030157109A1
 GENERAL INFORMATION:
APPLICANT: Corvalan, Jose R.F.
APPLICANT: Jia, Xiao-Chi
 Best Local Similarity 100 Matches 7; Conservative
 ; ORGANISM: homo sapiens
US-10-041-860-323
 TYPE: PRT
ORGANISM: homo sapiens
 76 FTLKISR 82
76 FTLKISR 82
 1 FTLKISR 7
 Query Match
 FEATURE:
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 US-10-783-950-114

j Sequence 114, Application US/10783950

j Publication No. US2040199945A1

j GENERAL INPORMATION:
 APPLICANT: EPICYTE PHARMACEUTICALS, INC.
 APPLICANT: HELM, MICH B.
 TITLE OF INVENTION: IMMUNOGLOBULIN BINDING PROTEIN ARRAYS IN PLANT CELLS
 TITLE OF INVENTION: UNMERS: US/10/783,950

CURRENT APPLICATION NUMBER: US/10/783,950

CURRENT PILING DATE: 2004-02-19

PRIOR PILING DATE: 2000-02-02

PRIOR PILING DATE: 2000-05-02

NUMBER: OF SEQ ID NOS: 182

SOFTWARE: Patentin Ver. 2.1

SEQ ID NO 114

LENGTH: 32
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 n
Similarity 100.0%; Score 33; DB 17; Length 32;
7; Conservative 0: Migmathin.
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Best Local Similarity 100.0%; Pred. No. 17;
Matches 7; Conservative 0; Mismatches 0; Indels
 NAME/KEY: DOMAIN

COTHER INPORMATION: (24)...(39)

OTHER INPORMATION: CDRI

NAME/KEY: DOMAIN

COCATION: (54)...(61)

COTHER INPORMATION: CDRII
US-09-905-243-61
 ; TYPE: PRT; ORGANISM: Mus musculus US-10-783-950-114
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 Query Match
Best Local Similarity
Matches 7; Conserv
 1 FTLKISR 7
 FEATURE:
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100.0%; Score 33; DB 14; Length 99;

Query Match

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 RESULT 14

US-10-041-860-365

Sequence 365, Application US/10041860

PUDLICATION NO. US20030157109A1

GENERAL INFORMATION:
APPLICANT: Corvalan, Jose R.F.
APPLICANT: Feng, Xiao-
APPLICANT: Chen, Francine
APPLICANT: Chen, Francine
APPLICANT: Gazit, Gadi
APPLICANT: Weber, Richard
APPLICANT: Weber, Richard
APPLICANT: Weber, Richard
APPLICANT: Weber, Richard
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APPLICANT: Weber, Richard

 100.0%; Score 33; DB 14; Length 99; 100.0%; Pred. No. 18; tive 0; Mismatches 0; Indels
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100.0%; Score 33; DB 14; Length 99;
Best Local Similarity 100.0%; Pred. No. 18;
Matches 7; Conservative 0; Mismatches 0; Indels
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Best Local Similarity 100.0%; Pred. No. 18;
Matches 7; Conservative 0; Mismatches
 US-10-308-817-176

Sequence 176, Application US/10308817

Publication No. US20030219861A1

GENERAL INFORMATION:

APPLICANT: Wother, Russell

APPLICANT: Wother, Russell

APPLICANT: Wother, Russell

APPLICANT: WOTHER, 1087-37

CURRENT APPLICATION: HYBRID ANTIBODIES

CURRENT APPLICATION NUMBER: US/10/308,817

CURRENT FILING DATE: 2002-12-03

NUMBER OF SEQ ID NOS: 195

SOOTWARE: PatentIn version 3.1

SEQ ID NO 176

LENGTH: 99
 FEATURE:
NAME/KEY: VARIANT
LOCATION: 43, 58, 96
OTHER INFORMATION: Xaa = Any Amino Acid
 FEATURE: NAME/KEY: VARIANT

LOCATION: 43, 58, 96

USTHER INFORMATION: Xaa = Any Amino Acid
US-10-041-860-365
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Matches 7; Conservative
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ORGANISM: homo sapiens
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 76 FTLKISR 82
 1 FTLKISR 7
 1 FTLKISR 7
 ; TYPE: PRT
; ORGANISM: human
US-10-308-817-176
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Query Match
Best Local Similarity
Matches 3; Conserv
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 US-09-187-859-637
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US-09-187-859-637

US-08-157-177-16

US-08-155-613A-59

US-09-155-613A-59

US-09-26-806-5

US-09-230-139-41A-6

US-08-739-401A-6

US-08-739-401A-6

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US-08-739-401A-6

US-08-739-401A-6

US-08-38-65-46

US-08-292-597-46

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US-08-388-653-46

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US-09-087-111-46

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US-09-302-629-46
US-08-136-743B-55
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Maximum Match 100%
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 US-09-712-819D-1
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## ALIGNMENTS

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## Sequence 637, Application US/09187859A

## Patent No. 6358920

## General Incomparion

## APPLICANT: Blaschuk, Orest W.

## APPLICANT: Blaschuk, Orest W.

## APPLICANT: Blaschuk, Orest W.

## APPLICANT: Gour, Barbara J.

## TITLE OF INVENTION: COMPOUNS AND METHODS FOR MODULATING NONCLASSICAL

## TITLE OF INVENTION: CALDHERIN-MEDIATED FUNCTIONS

## TITLE OF INVENTION: CALDHERIN-MEDIATED FUNCTIONS

## TITLE OF INVENTION UNMBER: US/09/187,859A

## CURRENT FILING DATE: 1998-11-06

## NUMBER OF SEQ ID NOS: 4052

## SEQ ID NO 637

## LENGTH: 7

## LENGTH: 7

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| Fateniu NO. 0440ULZU
| GRERALI INFORMATION:
| APPLICANT: Boulanger, Pierre
| APPLICANT: Boulanger, Pierre
| APPLICANT: Hong, Saw See
| APPLICANT: Hong, Saw See
| APPLICANT: Hong, Saw See
| APPLICANT: Karayan, Lucie
| APPLICANT: Karayan, Lucie
| APPLICANT: Karayan, Lucie
| APPLICANT: Now Off Saw See
| TITLE OF INVENTION: 037751-036
| FILE REFRENCE: 037751-036
| CURRENT PLILING DATE: 1998-09-30 |
| PRIOR PILING DATE: 1998-01-30 |
| PRIOR APPLICATION NUMBER: FR 97/01005 |
| PRIOR APPLICATION NUMBER: FR 97/01005 |
| PRIOR APPLICATION NUMBER: FR 97/01005 |
| PRIOR APPLICATION NUMBER: FR 97/01005 |
| PRIOR FILING DATE: 1997-09-09 |
| NUMBER OF SEQ ID NOS: 98 |
| SEQ ID NO 59 |
| LENGTH. 6 |
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 h S3.1%; Score 17; DB 3; Length 5; Similarity 100.0%; Pred. No. 3.8e+05; 4; Conservative 0; Mismatches 0; Indels
 Query Match 53.1%; Score 17; DB 4; Le
Best Local Similarity 75.0%; Pred. No. 3.8e+05;
Matches 3; Conservative 1; Mismatches 0;
PatentIn Release #1.0, Version #1.25
 6004.US.01
 омывк: US/08/757,177
27-NOV-1996
V: лэг
 Sequence 59, Application US/09155613A Patent No. 6420120
 US-09-266-805-5; Sequence 5, Application US/09266805; Patent No. 6517829; Patent No. 18778A2TION: APPLICANT: Unilever N.V.
 CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/757
FILING DATE: 27-NOV-1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6004
TELECOMONICATION INFORMATION:
TELEPHONE: 847-935-1729
INFORMATION FOR SEQ ID NO: 16:
SEGUENCE CHARACTERISTICS:
LENGTH: 5 amino acids
 TYPE: PRT
ORGANISM: Artificial Sequence
PEATURE:
 OTHER INFORMATION: Phagotope
 TOPOLOGY: linear MOLECULE TYPE: protein
 TYPE: amino acid
STRANDEDNESS: single
 linear
 Query Match
Best Local Similarity
Matches 4; Conserv
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 RESULT 5
US-09-155-613A-59
 US-09-155-613A-59
 US-08-757-177-16
 RESULT 6
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 Sequence 637, Application US/09839542B
Fatent No. 656996
GENERAL INFORMATION:
APPLICANT: Blaschuk, Orest W.
APPLICANT: Barbara J.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR MODULATING NONCLASSICAL
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR MODULATING NONCLASSICAL
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR MODULATING NONCLASSICAL
TITLE OF INVENTION: CAPACHERIN-MEDIATED FUNCTIONS
FILE REFERENCE: 100086.407D1
CURRENT APPLICATION NUMBER: US/09/839,542B
NUMBER OF SEQ ID NOS: 4052
SOFTWARE: PARENTIN VET. 2.0
SOFTWARE: PARENTIN VET. 2.0
 Gaps
 Gaps
 Sequence 16, Application US/08757177

Patent No. 6071718

GENERAL INFORMATION:
APPLICANT: MUKENI, PRADIP
APPLICANT: HARDS, ROBERT G.
APPLICANT: THURMOND, JENNIFER M.
APPLICANT: THURMOND, JENNIFER M.
APPLICANT: THURMOND, AMANDA EUN-YEONG
TITLE OF INVENTION: METHODS OF PRODUCING A RECOMBINANT PROTEIN
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: One Abbott Park Road
CTTY: Abbott Park Road
CTTY: Abbott Park
 CTHER INFORMATION: Representative linear modulating agent based on OTHER INFORMATION: cadherin-related neuronal receptor cell adhesion; OTHER INFORMATION: recognition sequence
 FEATURE:
OTHER INFORMATION: Representative linear modulating agent based on OTHER INFORMATION: cadherin-related neuronal receptor cell adhesion OTHER INFORMATION: recognition sequence
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 Query Match 56.2%; Score 18; DB 3; Length 7; Best Local Similarity 57.1%; Pred. No. 3.8e+05; Matches 4; Conservative 1; Mismatches 2; Indels
 MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
 TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
 ORGANISM: Artificial Sequence
 COMPUTER READABLE FORM:
 Illinois
 1 FTLTISS 7
 FTIDSSS 7
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1 FTIDSSS 7
 1 FTLTISS 7
 60064
 RESULT 3
US-09-839-542B-637
 US-09-839-542B-637
 US-08-757-177-16
 COUNTRY:
 CITY: A
 TYPE: PRT
 LENGTH:
 RESULT 4
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Gaps

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Gaps

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Length 6; Indels us-09-712-819d-1.closed.rai

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APPLICANT: LO, Reggie Y.C.
APPLICANT: Schryvers, Anthony B.
APPLICANT: Bothyvers, Anthony B.
APPLICANT: Bothyvers, Anthony B.
APPLICANT: Bothyvers, Anthony B.
APPLICANT: Bothyvers, Anthony B.
TITLE OF INVENTION: TRANSFERRIN BINDING PROTEINS OF
TITLE OF INVENTION: TRANSFERRIN BINDING PROTEINS OF
TITLE OF INVENTION: PASTEURELLA HAEMOLYTICA AND VACCINES CONTAINING THE SAME
FILE REPERRENCE: A34762 021645.0105
CURRENT PRILING DATE: 1996-11-29
PRIOR APPLICATION NUMBER: CA 2,164,274
PRIOR APPLICATION NUMBER: 60/008,569
PRIOR FILING DATE: 1995-12-01
PRIOR FILING DATE: 1995-12-01
NUMBER OF SEQ ID NOS: 68
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 19
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 Score 17; DB 4; Length 7;
Pred. No. 3.8e+05;
4; Mismatches 0; Indels
 0; Indels
 Length 7;
 STATE: Wisconsin
COUNTRY: U.S.A.
ZIP: 53202-4497
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OMPRATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/739,401A
 Score 17; DB 2; I
Pred. No. 3.8e+05;
1; Mismatches 0;
 APPLICALLO...
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/ACENT INFORMATION:
NAME: Baker, Jean C.
REGISTRATION NUMBER: 35,433
REFERENCE/DOCKET NUMBER: 650053.91151
TELECOMMUNICATION INFORMATION:
TELEPHONE: (414) 277-5709
TELEPROR: (414) 277-5709
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
TRNGTH: 7 amino acids
 Sequence 19, Application US/08753750B Patent No. 6610506
 53.1%;
 53.1%;
 Query Match
Best Local Similarity 75.0
Matches 3; Conservative
 ORGANISM: Escherichia coli
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Best Local Similarity 33.3
Matches 2; Conservative
 TOPOLOGY: linear
MOLECULE TYPE: peptide
 2 TLTISS 7
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 1 FTLT 4
 RESULT 9
US-08-753-750B-19
 US-08-753-750B-19
 ; MOLECOLE 11F
US-08-739-401A-6
 RESULT 10
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 TITLE OF INVENTION: New products comprising inactivated yeasts or moulds TITLE OF INVENTION: Drovided with active antibodies
TITLE OF INVENTION: provided with active antibodies
TITLE OF INVENTION: provided with active antibodies
CURRENT APPLICATION NUMBER: US/09/266,805
CURRENT FILING DATE: 1999-03-12
NUMBER OF SEQ ID NOS: 21
SEQ ID NO 5
LENGTH: 6
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 OTHER INFORMATION: Description of Artificial Sequence: Synthetic
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US-08-739-401A-6

Sequence 6, Application US/08739401A

Patent No. 5837461

GENERAL INFORMATION:

APPLICANT: Neitz, Maureen B.

APPLICANT: Neitz, John F.

TITLE OF INVENTION: DETECTION OF CONR-PHOTORECEPTOR-BASED

TITLE OF INVENTION: VISION DISORDERS

NUMBER OF SEQUENCES: 18

CORRESPONDENCE ADDRESS:

ADDRESSEE: Quarles & Brady
 FENCENTE NO. 00. 10423

GENERAL INTORMATION:
APPLICANT: FRENKEN, LEON GERARDUS
APPLICANT: HOWELL, STEVEN
APPLICANT: HOWELL, STEVEN
APPLICANT: HOWELL, STEVEN
TITLE OF INVENTION: MULTIVALENT ANTIGEN-BINDING PROTEINS
FILE REFERENCE: 6013/268075/ASH
CURRENT APPLICATION NUMBER: US/09/530,139
CURRENT PILING DATE: 2000-04-27
FRIOR APPLICATION NUMBER: PCT/EP98/06991
PRIOR APPLICATION NUMBER: BP7308538.4
PRIOR FILING DATE: 1998-10-27
PRIOR FILING DATE: 1998-10-27
SPRIOR FILING DATE: 1997-10-27
SOFTWARE: PARENT FILING PAPE: 2000-04-27
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SPRIOR FILING DATE: 1998-10-27
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 53.1%; Score 17; DB 4; Length 6; 60.0%; Pred. No. 3.8e+05; tive 2; Mismatches 0; Indels
 0; Indels
 53.1%; Score 17; DB 4; Length 6; 60.0%; Pred. No. 3.8e+05; live 2; Mismatches 0; Indels
 ADDRESSEE: Quarles & Brady
STREET: 411 East Wisconsin Avenue
 Sequence 14, Application US/09530139
Patent No. 6670453
 TYPE: PRT
ORGANISM: Artificial Sequence
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Best Local Similarity 60.0.
 3; Conservative
APPLICANT: Unilever PLC
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Best Local Similarity
Matches 3; Conserv
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2 VTVSS 6
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2 VTVSS 6
 ; TYPE: PRT
; ORGANISM: 11ama
US-09-266-805-5
 US-09-530-139-14
 US-09-530-139-14
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 GENERAL INFORMATION:

APPLICANT: Park, John E.

APPLICANT: Park, John E.

APPLICANT: Bamberger, Uwe

APPLICANT: Bamberger, Uwe

APPLICANT: Bamberger, Uwe

APPLICANT: Beger Olivier

APPLICANT: Beger Olivier

APPLICANT: Beger Olivier

APPLICANT: Rettig, Wolfgang J.

TITLE OF INVENTION: FAP-specific Antibody with Improved Producibility

FILE REPERENCE: 0552.1890001

CURRENT APPLICATION NUMBER: 1899-04-29

EARLIER APPLICATION NUMBER: EP 98107925.4

EARLIER PILING DATE: 1998-04-18

NUMBER OF SEQ ID NOS: 108

SOFTWARE: PATCHING DATE: 1998-05-18

NUMBER OF SEQ ID NOS: 108

SOFTWARE: PATCHING UNCY: 2.0
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US-08-860-904-9
; Sequence 9, Application US/08860904
; Patent No. 6294654
; GENERAL INFORMATION:
; APPLICANT: Sandlie, Inger
; APPLICANT: Sandlie, Inger
; APPLICANT: Sandlie, Inger
; APPLICANT: Bogen, Bjarne
; APPLICANT: Bossum, Sigbiorn
; TITLE OF INVENTION: Loop Region
; TITLE OF INVENTION: Loop Region
; TITLE OF INVENTION: Loop Region
; TITLE OF INVENTION: 100P Region
; TITLE OF INVENTION: 190P Region
; TITLE OF INVENTION: 1997-09-19
; TITLE OF INVENTION: 1997-09-19
; EARLIER APPLICATION NUMBER: CT/GB96/00116
; EARLIER FILING DATE: 1996-01-19
; EARLIER FILING DATE: 1996-01-19
; SARLIER FILING DATE: 1995-01-19
; SEQ ID NO 9
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 Score 16; DB 4; Length 4;
Pred. No. 3.8e+05;
1; Mismatches 0; Indels
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 Sequence 47, Application US/09301593A
Patent No. 6455677
 ; Sequence 7, Application US/08252995D
 50.0%;
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13. Conservative
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ORGANISM: Homo sapiens
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 RESULT 12
US-08-252-995D-7
 US-09-301-593-47
 US-09-301-593-47
 SEQ ID NO 47
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 TYPE: PRT
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APPLICANT. PENGLA James W
APPLICANT. PENGLA CATOL
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Gaps
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 Sequence 46, Application US/08388653

Patent No. 586337

GENERAL INFORMATION:

APPLICANT: Crabice, Gerald R.

APPLICANT: Schreiber, Stuart L.

APPLICANT: Spencer, David M.

APPLICANT: Belshaw, Peter

ITILE OF INVENTION: REGULATED TRANSCRIPTION OF TARGETED

TITLE OF INVENTION: GENES AND OTHER BIOLOGICAL EVENTS

NUMBER OF SEQUENCES: 81

CORRESPONDENCE ADDRESSS:

ADDRESSEE: ALTAD Pharmaceuticals, Inc.

STREET: 26 Landsdowne Street
 50.0%; Score 16; DB 2; Length 6; 75.0%; Pred. No. 3.8e+05;
 50.0%; Score 16; DB 2; Length 6; 75.0%; Pred. No. 3.8e+05; Live 1; Mismatches 0; Indels
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SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/389,653
FILING DATE: 14-FEB-1995
CLASSIFICATION NUMBER: US/08/386
FILING APPLICATION DATA:
APPLICATION NUMBER: US/08/478,386
FILING DATE: O'JUN-1995
ATTORNEY/AGENT INFORMATION:
NAMME: FA99, E. Anthony
REGISTRATION NUMBER: 207-1195
REFERENCE/DOCKET NUMBER: 2054-114A
 1; Mismatches
 Search completed: November 4, 2004, 01:25:34 Job time : 24.6667 secs
 (202) 783-6040
 TELEPHONE: (202) 783-60.
TELEFAX: (202) 783-6031
INFORMATION FOR SEQ ID NO:
 Query Match
Best Local Similarity 75.0
Matches 3; Conservative
 SEQUENCE CHARACTERISTICS:
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Matches 3; Conservative
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: Massachusetts
RY: USA
 MOLECULE TYPE: protein
 TOPOLOGY: linear
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 3 LTIS 6
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 02139
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US-08-292-597-46
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 50.0%; Score 16; DB 2; Length 6; 75.0%; Pred. No. 3.8e+05; tive 1; Mismatches 0; Indels
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CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/478,386A
FILING DATE: 07/JUN/1995
CLASSIPICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Figg. B. Anthony
REGISTRATION NUMBER: 2054-114A
TELECOMMUNICATION INFORMATION:
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC/DCS/NS/DCS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/292,597
FILING DATE: 18/AUG/1994
CLASSIFICATION 1435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 2054-108A
FILING DATE: ATTORNEY/AGENT INFORMATION:
NAME: Figgs B. Anthony
REGISTRATION NUMBER: 27,195
REFERENCE/DOCKET NUMBER: 2054-108A
TELECOMMUNICATION INFORMATION:
TELEFRAX: (202) 783-6040
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LENGTH: 6 amino acids
TYPE: amino acids
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TYPE: ATTORNEY/DENCET
 Sequence 46, Application US/08292597
Patent No. 5834266
GENERAL INFORMATION:
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Schreiber, Stuart L.
APPLICANT: Spencer, David M.
APPLICANT: Bancer, David M.
APPLICANT: Belshaw, Peter
ITTLE OF INVENTION: Regulated Apoptosis
NUMBER OF SEQUENCES: 81
COUNTERPENDENCE ADDRESS:
ADDRESSEE: ARIAD Pharmaceuticals, Inc.
STREET: 26 Landsdowne Street
CITT. Cambridge
STATE: Massachusetts
COUNTRY: USA
OPERATING SYSTEM: PC/DOS/MS/DOS
 Query Match
Best Local Similarity 75.0
Matches 3; Conservative
 TOPOLOGY: linear
MOLECULE TYPE: protein
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TOPOLOGY: linear
 3 LTIS 6
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Sequence 107, App
Sequence 29, Appl
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Sequence 2, Appli
 Sequence 17, Appl
Sequence 14, Appl
Sequence 59, Appl
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10: /cgm2_6/prodata/2/pubpaa/US10B_PUBCOMB.pep:*
GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
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US-10-059-088-519

US-09-996-288-164

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US-09-996-288-164

US-10-396-288-164

US-10-30-31-69

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US-10-31-596A-394

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US-10-317-252A-402

US-10-317-253A-402

US-10-317-313-6
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## ALIGNMENTS

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Sequence 18, Application US/10150654A

Publication No. US20030198595A1

GENERAL INFORMATION:

APPLICANT: GOLDENBERG, DAVID M.

APPLICANT: HANSEN, HANS J.

APPLICANT: LEUNG, SHUL-ON

APPLICANT: LEUNG, SHUL-ON

APPLICANT: OF INVENTION: USE WITH BI-SPECIFIC ANTIBODIES

TITLE OF INVENTION: USE WITH BI-SPECIFIC ANTIBODIES

TITLE OF INVENTION: USE WITH BI-SPECIFIC ANTIBODIES

TITLE OF INVENTION: USE WITH BI-SPECIFIC ANTIBODIES

TITLE OF INVENTION: 1090-12-17

FRIOR PILING DATE: 1999-08-23

FRIOR FILING DATE: 2001-04-03

NUMBER OF SEQ ID NOS: 18

SOFTMARE: Patentin Ver. 2.1
 OTHER INFORMATION: Description of Artificial Sequence: Synthetic OTHER INFORMATION: peptide
 Query Match 68.8%; Score 22; DB 14; Length 6; Best Local Similarity 66.7%; Pred. No. 1.2e+06; Matches 4; Conservative 2; Mismatches 0; Indels
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US-10-150-654A-18
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US-10-150-654A-18
 SEQ ID NO 18
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 APPLICANT: Gately, Maurice
 ORGANISM: Homo sapiens
 Query Match
Best Local Similarity
Matches 4; Conserv
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 TYPE: PRT
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 US-10-349-50/-LI

Sequence 11, Application US/10349507

Publication No. US20030199002A1

GENERAL INFORMATION:

APPLICANT: Hekimi, Siegfried

APPLICANT: Hekimi, Siegfried

APPLICANT: Grang, Ning

APPLICANT: Benard, Claire

APPLICANT: Kebir, Hania

TITLE OF INVENTION: CLK-2 WUCLEIC ACIDS, POLYPEPTIDES, AND USES THEREOF

TITLE OF INVENTION: CLK-2 WUCLEIC ACIDS, POLYPEPTIDES, AND USES THEREOF

FILE REPREBNCE: 11200-006-999

CURRENT FILING DATE: 2003-01-22

PRIOR PRILICATION NUMBER: PCT/CA01/00913

PRIOR FILING DATE: 2000-06-20

PRIOR FILING DATE: 2000-06-22

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PRIOR FILING DATE: 2000-06-22

PRIOR FILING DATE: 2000-12-13

NUMBER OF SEQ ID NOS: 41

SOFTWARE: Patentin version 3.2

SEQ ID NO. 11

LENGTH: 7
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 Sequence 637, Application US/10066869

Publication No. US20030082166A1

GENERAL INFORMATION:

APPLICANT: Blaschuk, Orest W.

APPLICANT: Blaschuk, Orest W.

APPLICANT: Gour, Barbara J.

ITTLE OF INVENTION: COMPOUNDS AND METHODS FOR MODULATING NONCLASSICAL

TITLE OF INVENTION: CAPABERIN-MEDIATED FUNCTIONS

FILE REFERENCE: 100086.407C7

CURRENT APPLICATION NUMBER: US/10/006,869

CURRENT FILING DATE: 2001-12-03

NUMBER OF SEQ ID NOS: 4052
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 56.2%; Score 18; DB 14; Length 7; 100.0%; Pred. No. 1.2e+06; Live 0; Mismatches 0; Indels
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 56.2%;
 TYPE: PRT ORGANISM: Artificial Sequence
 Query Match
Best Local Similarity 57.13
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TVTVSS
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US-10-006-869-637
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Sequence 637, Application US/10395032

Sequence 637, Application US/10395032

Publication No. US20030229199A1

Publication No. US20030229199A1

GENERAL INFORMATION:

APPLICANT: Symonds, James Matthew

APPLICANT: Symonds, James Matthew

APPLICANT: Gour, Barbara J.

TITLE OF INVENTION: COMPOUNDS AND METHODS FOR MODULATING NONCLASSICAL

TITLE OF INVENTION: CAPHERIN-MEDIATED FUNCTIONS

FILE REFERENCE: 100086.407 US/10/395,032

CURRENT APPLICATION NUMBER: US/10/395,032

CURRENT FILING DATE: 2003-03-21

NUMBER OF SEQ ID NOS: 4052

SOFTWARE: Patentin Ver. 2.0

SEQ ID NO 637

LENGTH: 7
 APPLICANT: Gabely, Maurice
APPLICANT: Gabler, Maurice
APPLICANT: Gabler, Ulrich
APPLICANT: Gubler, Ulrich
APPLICANT: Gubler, Ulrich
APPLICANT: Hulmes, Jeffery
APPLICANT: Podalaski, Frank
APPLICANT: Podalaski, Frank
APPLICANT: Podalaski, Frank
APPLICANT: Podalaski, Frank
APPLICANT: PODALORIES THERETO
TITLE OF INVENTION: LYMPHOCYTE MATURATION FACTOR AND MONOCLONAL
TITLE OF INVENTION: ANTHEODIES THERETO
FILE REFERENCE: 11126-005
CURRENT FAPLICATION NUMBER: 09/401,839
PRIOR APPLICATION NUMBER: 09/401,839
PRIOR APPLICATION NUMBER: 09/401,839
PRIOR PILING DATE: 1995-06-02
PRIOR PELING DATE: 1995-06-02
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PRI
 OTHER INFORMATION: Representative linear modulating agent based on OTHER INFORMATION: cadherin-related neuronal receptor cell adhesion
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 56.2%; Score 18; DB 14; Length 7; 100.0%; Pred. No. 1.2e+06;
 Indels
 0; Mismatches
Sequence 11, Application US/10267565 Publication No. US20030204059A1 GENERAL INFORMATION:
```

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Gaps
 Muyldermans, Serge
TITLE OF INVENTION: VARIABLE FRAGMENTS OF IMMUNOGLOBULINS -
NUMBER OF SEQUENCES: 29
 0
 CORRESPONDENCE ADDRESS:
ADDRESSEE: SPENCER & FRANK
STREET: 1100 New York Avenue, N.W., Suite 300 East
 COUNTITY 102A
COUNTITY 102A
COUNTITY 102A
COUNTITY 102A
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
COMPUTER: DEACHLIN Release #1.0, Version #1.30
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/154,971
FILING DATE: 28-MAY-2002
CLASSIFICATION NUMBER: US/08/945,244
APPLICATION NUMBER: US/08/945,244
FILING DATE: CINKNOWN-
APPLICATION NUMBER: PS 95400932.0
FILING DATE: 25-APR-1995
ATTORNEY/AGENT INFORMATION:
NAME: GOllin, Michael A.
REGISTRATION NUMBER: 31,957
REFERENCE/DOCKET NUMBER: 31,957
REFERENCE/DOCKET NUMBER: 31,957
REFERENCE/DOCKET NUMBER: 31,957
REFERENCE/DOCKET NUMBER: 31,957
REFERENCE/DOCKET NUMBER: 320-444.4000
 Length 5;
 Indels
 53.1%; Score 17; DB 14; 60.0%; Pred. No. 1.2e+06;
 APPLICANT: Cambridge Antibody Technology APPLICANT: Cambridge Antibody Technology Limited APPLICANT: Medical Research Council
 2; Mismatches
 TOPOLOGY: linear
MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 29:
 Sequence 2, Application US/10803622 Publication No. US20040157214A1 GENERAL INFORMATION:
 STRANDEDNESS: <Unknown>
 Hoogenboom, Hendricus
Griffiths, Andrew
Jackson, Ronald
Holliger, Kasper
 GENERAL INFORMATION:
APPLICANT: Hamers, Raymond
 Publication No. US20030088074A1
 INFORMATION FOR SEQ ID NO: 29
 SEQUENCE CHARACTERISTICS
 Clackson, Timothy
 McCafferty, John
 CITY: Washington STATE: DC
 TYPE: amino acid
 Conservative
 Pope, Anthony
Johnson, Kevin
 Marks, James
 Query Match
Best Local Similarity
Matches 3; Conserv
 : |: | |
1 VTVSS 5
 US-10-154-971-29
 JS-10-803-622-2
 APPLICANT:
APPLICANT:
APPLICANT:
 APPLICANT:
APPLICANT:
 APPLICANT
 APPLICANT:
 APPLICANT
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 D,
 Sequence 107. Application US/09788006
Publication No. US20030036093A1
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Floudas, Christopher A.
APPLICANT: Riepeis, John L.
TITLE OF INVENTION: Methods of Ab Initio Prediction of Alpha Helices, Beta Sheets, and FILE OF INVENTION: Polypeptide Tertiary Structures
FILE REFERENCE: PU-0007
CURRENT APPLICATION NUMBER: US/09/788,006
CURRENT FILING DATE: 2001-02-16
NUMBER OF SEQ ID NOS: 170
SOFTWARE: Patentin version 3.0
SEQ ID NO 107
 Publication No. US20030036093A1

Publication No. US20030036093A1

Publication No. US20030036093A1

REMERAL INFORMATION:
APPLICANT: Floudas, Christopher A.
APPLICANT: Riepeis, John L.
TILE OF INVENTION: Methods of Ab Initio Prediction of Alpha Helices, Beta Sheets, and TITLE OF INVENTION: Polypeptide Tertiary Structures

FILE REFERENCE: PU-0007

CURRENT APPLICATION UNDER: US/09/788,006

CURRENT FILING DATE: 2001-02-16

NUMBER OF SEQ ID NOS: 170

SOFTWARE: PatentIn version 3.0
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 Score 18; DB 14; Lengtn /; Pred. No. 1.2e+06; 2; Indels
 Score 17; DB 10; Length 5;
Pred. No. 1.2e+06;
1; Mismatches 0; Indels
 Score 17; DB 10; Length 5; Pred. No. 1.2e+06; 1; Mismatches 0; Indels
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 Similarity 75.0%;
3; Conservative
 Query Match
Best Local Similarity 57.1
Matches 4; Conservative
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Best Local Similarity 75.0°
Matches 3; Conservative
 1 FTLTISS 7
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Best Local Similarity
Matches 3; Conserv
 1 FTLT 4
 RESULT 6
US-09-788-006-107
; OTHER INFORMATION OF US-10-395-032-637
 RESULT 7
US-09-788-006-108
 US-09-788-006-108
 RESULT 8
US-10-154-971-29
 SEQ ID NO 108
LENGTH: 5
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GENERAL INFORMATION:
APPLICANT: WERKULOV et al.
TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS,
TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,
TITLE OF INVENTION: AND USES THEREOF
FILE REPERENCE: CLOO1103
CURRENT APPLICATION NUMBER: US/09/77,921A
CURRENT FILING DATE: 2002-02-07
NUMBER OF SEQ ID NOS: 126
SOFTWARE: FastERQ for Windows Version 4.0
SEQ ID NO 17
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 .
0
 Sequence 14, Application US/09530139

publication No. US20030092892A1

GENERAL INPORMATION:
APPLICANT: FRENKEN, LEON GERARDUS
APPLICANT: PLEDEBOGE, ADRIANUS MARINUS
APPLICANT: PLEDEBOGE, ADRIANUS MARINUS
TITLE OF INVENTION: MULTIVALENT ANTIGEN-BINDING PROTEINS
FILE REFRENKENES: 60113/268075ASH
CURRENT APPLICATION NUMBER: US/09/530,139
CURRENT FILING DATE: 2000-04-27
PRIOR APPLICATION NUMBER: BF 97308538.4
 Score 17; DB 16; Length 5;
Pred. No. 1.2e+06;
2; Mismatches 0; Indels
 53.1%; Score 17; DB 9; Length 6; 100.0%; Pred. No. 1.2e+06; ive 0; Mismatches 0; Indels
 2; Mismatches
 PRIOR APPLICATION NUMBER: GB 9104744.9
PRIOR FILING DATE: 1991-03-06
PRIOR APPLICATION NUMBER: GB 9110549.4
PRIOR PILING DATE: 1991-05-15
PRIOR FILING DATE: 1991-07-10
PRIOR FILING DATE: 1991-07-10
PRIOR FILING DATE: 1993-01-08
PRIOR FILING DATE: 1993-01-08
PRIOR FILING DATE: 1993-01-08
PRIOR PLING DATE: 1995-06-07
NUMBER OF SEQ ID NOS: 272
SOFTWARE: Patentin version 3.1
SEQ ID NO 2
LENGTH: 5
 Sequence 17, Application US/09777921A Patent No. US20020115136A1
 53.1%;
 FILING DATE: 1990-11-12
) ORGANISM: Bacteriophage fd
US-10-803-653-2
 4; Conservative
 Query Match
Best Local Similarity 60.0
Matches 3; Conservative
 TYPE: PRT
ORGANISM: Homo sapiens
 Query Match
Best Local Similarity
Matches 4; Conserv
 3 LTISS 7
 1 VTVSS 5
 3 LTIS 6
 US-09-777-921A-17
 RESULT 11
US-09-777-921A-17
 -09-530-139-14
 TYPE: PRT
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 엄
 à
APPLICANT: Chiswell, David
APPLICANT: Winter Gregory
APPLICANT: Winter Gregory
TITLE OF INTERPRETATION WHENCES for Producing Members of Specific Binding Pairs
TILE OF TUTE OF THE CONTRIBUTION: Methods for Producing Members of Specific Binding Pairs
FILE REFERENCE: 13839-00013
CURRENT APPLICATION NUMBER: US/10/803,622
CURRENT FILING DATE: 1990-07-10
PRIOR PILING DATE: 1990-07-10
PRIOR PILING DATE: 1990-10-19
PRIOR PILING DATE: 1990-10-19
PRIOR PILING DATE: 1990-11-19
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PRIOR PILING DATE: 1995-06-07
PRIOR PILING DATE: 1995-06-07
 APPLICANT: Holliger, Kasper
APPLICANT: Marks, James
APPLICANT: Clackson, Timochy
APPLICANT: Chiswell, David
APPLICANT: Winter, Gregory
APPLICANT: Monert, Timochy
TITLE OF INVENTION: Methods for Producing Members of Specific Binding Pairs
FILE REFERENCE: 13839-0013
CURRENT APPLICATION NUMBER: US/10/803,653
CURRENT FILING DATE: 2004-03-18
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 Score 17; DB 16; Length 5;
Pred. No. 1.2e+06;
2; Mismatches 0; Indels
 APPLICANT: Cambridge Antibody Technology
APPLICANT: Cambridge Antibody Technology Limited
APPLICANT: Medical Research Council
APPLICANT: MCGafferty, John
APPLICANT: Pope, Anthony
 PRIOR APPLICATION NUMBER: GB 9022845.3
PRIOR FILLING DATE: 1990-10-19
PRIOR APPLICATION NUMBER: GB 9022845.3
PRIOR FILLING DATE: 1990-10-19
PRIOR PILLING DATE: 1990-10-19
 CURRENT FILING DATE: 2004-03-18
PRIOR APPLICATION NUMBER: GB 9015198.6
PRIOR FILING DATE: 1990-07-10
 Sequence 2, Application US/10803653 Publication No. US20040157215A1 GENERAL INFORMATION:
 Hoogenboom, Hendricus
Griffiths, Andrew
Jackson, Ronald
 53.1%;
 TYPE: PRT
ORGANISM: Bacteriophage fd
 Query Match
Best Local Similarity 60.0°
---------------------3; Conservative
 Johnson, Kevin
 3 LTISS 7 :|:|| 1 VTVSS 5
 US-10-803-622-2
 APPLICANT:
APPLICANT:
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APPLICANT:
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US-10-698-489-17
 FEATURE:
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 RESULT 13
US-10-156-820-59
i Sequence 59, Application US/10156820
i Sequence 59, Application WS/10156820
i Sequence 59, Application No. US20020150558A1
i GENERAL INFORMATION:
i APPLICANT: Hong, Saw See
i TILB OF INVENTION: Use of a Polypeptide as Cell Receptor for Adenoviruses
i FILE NEFERRACE: 032751-036
CURRENT APPLICATION NUMBER: US/10/156,820
CURRENT FILING DATE: 1998-01-30
PRIOR FILING DATE: 1998-01-30
PRIOR FILING DATE: 1998-01-30
PRIOR FILING DATE: 1999-01-30
PRIOR FILING DATE: 1997-09-09
NUMBER OF SEQ ID NOS: 98
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 59
TABUSH ENERGY OF SET SEQ ID WOS: 98
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THENCE THE OF SET SEQ ID WOS: 98
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 RESULT 14

'US-10-097-175-97

'Sequence 97, Application US/10097175

'Publication No. US2030045680A1

'GENERAL INFORMATION:

'APPLICANT: JOYALI, JOHN L.

'APPLICANT: OZA, VIBHA B.

'APPLICANT: OZA, VIBHA B.

'APPLICANT: PINDEIS, MARK A.

'TITLE OF INVENTION: PETIDIC MODULATORS OF THE ANDROGEN RECEPTOR

'CURRENT FILLING DATE: 2002-03-12

'CURRENT FILLING DATE: 2001-03-12

'PRIOR FILLING DATE: 2001-03-12
) OTHER INFORMATION: Description of Artificial Sequence: Synthetic; OTHER INFORMATION: peptide
US-09-530-139-14
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 Length 6;
 Score 17; DB 10; Length 6;
Pred. No. 1.2e+06;
2; Mismatches 0; Indels
 53.1%; Score 17; DB 13; Length 6; 75.0%; Pred. No. 1.2e+06; tive 1; Mismatches 0; Indels
 53.1%;
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ORGANISM: Artificial Sequence
FBATURE:
 TYPE: PRT
ORGANISM: Artificial Sequence
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NUMBER OF SEQ ID NOS: 77
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Best Local Similarity 60.0
Matches 3; Conservative
 Conservative
 Query Match
Best Local Similarity
Matches 3; Conserv
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2 VTVSS 6
 3 LTISS 7
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YTLT 6
 FEATURE:
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RESULT 15
US-10-698-489-17
i Sequence 17, Application US/10698489
i Publication No. US20040067523A1
i General INFORMATION:
i APPLICATION Genady et al.
i TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS,
i TITLE OF INVENTION: AND USES THEREOF
i TITLE OF INVENTION: AND USES THEREOF
i TITLE OF INVENTION: AND USES THEREOF
i TITLE OF INVENTION: AND USES THEREOF
i TITLE OF INVENTION: AND USES THEREOF
i FILE REFERENCE: CLO1103CON
i CURRENT FILING DATE: 2003-11-03
i PRIOR FILING DATE: 2003-11-03
i PRIOR FILING DATE: 2003-11-03
i PRIOR FILING DATE: 2001-02-07
i NUMBER OF SEQ ID NOS: 126
i SOFTWARE: FastSEQ for Windows Version 4.0
i SEQ ID NO 17
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 Gaps
 Gaps
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 Length 6;
 53.1%; Score 17; DB 15; Length 6; 100.0%; Pred. No. 1.2e+06;
 ; OTHER INFORMATION: Androgen Receptor Binding Polypeptides US-10-097-175-97
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80.0%; Pred. No. 1.2e+06;
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PRIOR APPLICATION NUMBER: 60/352,399
PRIOR FILING DATE: 2002-01-28
NUMBER OF SEQ ID NOS: 102
SOFTWARE: FastSEQ for Windows Version 4.0
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 Search completed: November 4, 2004, 01:43:16
Job time : 70.6667 secs
 TYPE: PRT ORGANISM: Artificial Sequence
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 TYPE: PRT
ORGANISM: Homo sapiens
 Query Match
Best Local Similarity
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Best Local Similarity
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 3 LTIS 6
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GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
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Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries PIR 79:\*
1: pir1:\*
2: pir2:\*
3: pir3:\*
4: pir4:\* Database :

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

|             | Description              | branched for the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the form of the f | 34.5K structural n | metural pr | 11 receptor |        | Cytochrome-c oxida | major protein anti |            | 34.5K structural n |        | e protein | flagellar protein | N-formyl oligonent |        | _      | V protein - human | HC HO-T. | nilk protein 1800 | L      | Janage |        | Sex pheromone cams | pheromone | 11 recent | 1 receptor | -cell receptor | cott receptor | receptor | corr receptor | IOIdanat ten |
|-------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------|-------------|--------|--------------------|--------------------|------------|--------------------|--------|-----------|-------------------|--------------------|--------|--------|-------------------|----------|-------------------|--------|--------|--------|--------------------|-----------|-----------|------------|----------------|---------------|----------|---------------|--------------|
| SUMMARIES   | ΩĨ                       | A40135                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | B44817             | D44817     | PT0644      | E30608 | T13892             | E60274             | A37114     | H44817             | F44817 | S69237    | E42364            | A60986             | S14159 | A43766 | 137263            | I65546   | \$25266           | PS0254 | PN0649 | 990608 | A25269             | A30812    | PT0622    | PT0696     | PT0645         | PT0712        | PT0698   | PT0551        | )            |
|             | ngth DB                  | 4 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                    |            |             |        |                    |                    |            |                    |        |           |                   |                    |        |        |                   |          |                   |        |        | 7 2    |                    |           |           |            |                |               |          |               |              |
| <b>6</b> /6 | Query<br>Match Length DB | 34.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 34.4               | 34.4       | ব           | ~      | œ                  | 28.1               | ထ          | œ                  | œ      | ∞         | 8                 | ထ                  | æ      | œ      | മ                 | œ        | æ                 | ä      | 8      | 28.1   | å                  | å         | 'n.       | 'n         | 'n             | io.           | io.      | 10            |              |
|             | Score                    | 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 11                 | 11         | 11          | 10     | σ                  | თ                  | σ.         | σ                  | თ -    | on ·      | თ                 | σ                  | თ      | σı,    | σ                 | ወ        | σι                | σ      | თ      | σι     | σ                  | თ         | æ         | 80         | œ              | œ             | 80       | 00            |              |
|             | Result<br>No.            | н                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 7                  | m          | 4           | S      | 9                  | 7                  | <b>∞</b> · | ט י                | 0 7    | 11        | 12                | 13                 | 14     | 15     | 16                | . 17     | 18                | 19     | 20     | 21     | 22                 | 23        | 24        | 25         | 26             | 27            | 28       | 29            |              |

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RESULT 3 D44817 35K structural protein - Leuconostoc oenos phage PAt5-12 (fragment)

| T-sell resentor be | ribogomal protein |        |        | TTOOOGUNAT DTOCETII | nypothetical prote | myosin light chain | Id heavy chain GRD | T-Cell recentor be |        |        | receptor | 100000 | 100000 | つんつつ   | I-CELI receptor be | receptor | -cell receptor |
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| 25                 | 25.               | 25     | 25     | 25                  | 100                | 25                 | 25                 | 25                 | 25     | 25     | 25       | 25     | 25     | ر<br>ب | 1                  | 25       | 25             |
| ∞                  | œ                 | œ      | ω      | α                   | 0 0                | 00                 | ∞                  | ω                  | œ      | 80     | 80       | ω      | 80     | α      | ٠ د                | ∞        | ω              |
| 0                  | -                 | Ŋ      | m      | 4                   | ٠.                 | n                  | w                  | 7                  | œ      | σ      | 0        | 41     | 2      | 4ء     | , .                | 4        | ω              |

## ALIGNMENTS

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Minimum DB seq length: 0 Maximum DB seq length: 7

| RESULT 1 A40135 branched-chain-amino-acid transaminase (EC 2.6.1.42), mitochondrial - rat (fragment) N;Alternate names: branched-chain-amino-acid aminotransferase, mitochondrial C;Species: Rattus norvegicus (Norway rat) C;Date: 13-May-1992 #sequence_revision 13-May-1992 #text_change 30-Sep-1993 C;Accession: A40135 C;Accession: A40135 A;Reference number: A40135 A;Accession: A40135 A;Accession: A40135 A;Accession: A40135 A;Accession: A40135 A;Accession: A40135 A;Residues: 1-4 c;Affl C;Keywords: aminotransferase; mitochondrion | Query Match 34.4%; Score 11; DB 2; Length 4; Best Local Similarity 66.7%; Pred. No. 2.8e+05; Matches 2; Conservative 1; Mismatches 0; Indels 0; Gaps 0; Qy 5 ISS 7  Db 1 VSS 3 | RESULT 2 B44817 34.5K structural protein - Leuconostoc oenos phage PZt11-15 (fragment) C;Species: Leuconostoc cenos phage PZt11-15 C;Date: 31-Mar-1933 #sequence_revision 22-May-1998 #text_change 22-May-1998 C;Accession: B44817 E;Arendt, E.K.; Lonvaud, A.; Hammes, W.P. J. Gen. Microbiol. 137, 2135-2139, 1991 A;Title: Lysogeny in Leuconostoc cenos. A;Reference number: A44817; MUD:92085033; PMID:1748868 A;Accession: B44817 A;Nolecule type: protein | A, Residues: 1.5 < ARE> A, Note: sequence extracted from NCBI backbone (NCBIP:70342) Query Match Best Local Similarity 60.0%; Pred. No. 2.8e+05; Matches 3; Conservative 0; Mismatches 2; Indels 0; Gaps 0; |
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Cybochrome-c oxidase (EC 1.9.3.1) chain I [imported] - river lamprey mitochondrion (fractionation Lampetra fluviatilis (river lamprey)
C;Species: mitochondrion Lampetra fluviatilis (river lamprey)
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C;Accession: T13892
R;Delarbre, C.; Barriel, V.; Tillier, S.; Janvier, P.; Gachelin, G.
Mol. Biol. Bvol. 14, 807-813, 1997
A;Title: The main features of the craniate mitochondrial DNA between the NDI and the CC A;Reference number: Z17775; MUID:97388704; PMID:9254918
A;Accession: T13892
A;Accession: T13892
A;Actus: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-3 cbEL>
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C;Genetics:
 C.Species: Mycobacterium tuberculosis (fragment)
C.Species: Mycobacterium tuberculosis
C.Species: Mycobacterium tuberculosis
C.Date: 11-Dec-1992 #sequence_revision 11-Dec-1992 #text_change 30-Sep-1993
C.Accession: 860274
R.Nagai, S.; Wiker, H.G.; Harboe, M.; Kinomoto, M.
Infect. Immun. 59, 372-382, 1991
A.Aittle: Isolation and partial characterization of major protein antigens in the cultum A.Recession: B60274
A.Accession: B60274
A.Accession: December: A60274; WUID:91099989; PMID:1898899
A.Accession: preliminary
A.Nolecule type: protein
A.Residues: 1-5 <NAG>
 hypoxanthine phosphoribosyltransferase (EC 2.4.2.8) - fluke (Schistosoma mansoni) (frac C;Species: Schistosoma mansoni
C;Species: Schistosoma mansoni
C;Date: 28-Mar-1991 #sequence_revision 28-Mar-1991 #text_change 23-Jun-1993
C;Accession: A37114
 R; Yuan, L.; Craig, S.P.; McKerrow, J.H.; Wang, C.C.
J. Biol. Chem. 265, 13528-13532, 1990
A; Title: The hypoxanthine-guanine phosphoribosyltransferase of Schistosoma mansoni. Fu
A; Reference number: A37114; MUID:90337955; PMID:2199439
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 28.1%; Score 9; DB 2; Length 5; 25.0%; Pred. No. 2.8e+05; ... vi-matches 1; Indels
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28.1%; Score 9; DB 2; Length 5;
Best Local Similarity 66.7%; Pred. No. 2.8e+05;
Matches 2; Conservative 1; Mismatches 0; Indels
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 A;Genome: mitochondrion
A;Note: COI
C;Keywords: mitochondrion; oxidoreductase
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Best Local Similarity 25.0
Matches 1; Conservative
 A; Status: preliminary
 1 FTLT 4
 2 YPIT
 2 TL 3
 2 TL 3
 A; Accession: A371
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 Ig kappa chain V-III region (Gag) - human (fragment)
C;Species: Homo sapiens (man)
C;Species: Homo sapiens (man)
C;Date: 29-Jun-1889 #sequence_revision 29-Jun-1989 #text_change 16-Aug-1996
C;Date: 29-Jun-1889 #sequence_revision 29-Jun-1989 #text_change 16-Aug-1996
C;Accession: E3060, P.P.; McGinnis, D.; Arjonilla, M.L.; Fernandez, J.; Carson, D.; Solc J. Immunol. 142, 3158-3163, 1989
J;Title: Structural and idiotypic characterization of the L chains of human IgM autoanti A;Reference number: A30601; MUID:89215279; PMID:2496160
A;Accession: B30608
A;Accession: Excludinary
 R)Feeney, A.J.
J. Exp. Med. 174, 115-124, 1991
A;Title: Junctional sequences of fetal T cell receptor beta chains have few N regions.
A;Reference number: PT0509; MUID:91277601; PMID:1711558
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C;Species: Leuconostoc oenos phage PAt5-12
C;Date: 31-Mar-1993 #sequence_revision 22-May-1998 #text_change 22-May-1998
C;Accession: D44817
R;Arendt, B. K; Lonvaud, A.; Hammes, W.P.
J; Gen. Microbiol: 137, 2138-2139, 1991
A;Reference number: A44817; MUID: 92085033; PMID: 1748868
A;Reference number: A44817; MUID: 92085033; PMID: 1748868
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 T-cell receptor beta chain V-D-J region (111-1G) - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Date: 17-Uul-1992 #sequence_revision 17-Jul-1992 #text_change 09-Jul-2004
C;Accession: PT0644
R;Feeney, A.J.
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 Score 10; DB 2; Length 7; Pred. No. 2.8e+05; 0; Mismatches 1; Indels
 0; Indels
 Score 11; DB 2; Length 5; Pred. No. 2.8e+05; 0; Mismatches 2; Indels
 Length 5;
 / Match 34.4%; Score 11; DB 2; Le Local Similarity 100.0%; Pred. No. 2.8e+05; nes 2; Conservative 0; Mismatches 0;
 A)Residues: 1-5 <FEE>
A)Cross-references: UNIPROT:Q9Z2T6
A)Experimental source: newborn thymus, strain BALB/c
 A; Molecule type: protein
A; Residues: 1-7 <GON>
C; Keywords: heterotetramer; immunoglobulin
 Query Match
Best Local Similarity 75.0%;
Matches 3; Conservative
 Query Match 34.4%;
Best Local Similarity 60.0%;
Matches 3; Conservative (
 A; Status: translation not shown A; Molecule type: mRNA
 C; Keywords: T-cell receptor
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Cispecies: Salmonella typhimurium
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Cipate: 24-Jul-1992 #sequence_revision 24-Jul-1992 #text_change 09-Jul-2004
Cipate: 24-Jul-1992 #sequence_revision 24-Jul-1992 #text_change 09-Jul-2004
Cipate: 24-Jul-1992 #sequence_revision 24-Jul-1992 #text_change 09-Jul-2004
Ryogler, A.P. i Homma, M.; Irikura, V.M.; Macnab, R.M.
J. Bacteriol. 173, 3564-3572, 1991
A.Feference number: A42364; MUID:91258342; PMID:1646201
A.Reference number: A42364
A.Reterence number: preliminary
A.Reterence preliminary
A.Reterence number: Lovog>
A.Residues: 1-5 < VVOG>
A.Reterence number: AB A.Rete
 N-formyl oligopeptide - Escherichia coli (fragment)
C;Species: Bscherichia coli
C;Species: Bscherichia coli
C;Date: 31-Dec-1993 #sequence_revision 31-Dec-1993 #text_change 31-Dec-1993
C;Accession: A60986
R;Broom, M.F.; Mellor, D.M.; Chadwick, V.S.
R;Broom, M.F.; Mellor, D.M.; Chadwick, V.S.
A;Title: Purification and amino acid sequencing of naturally occurring N-formyl-methion A;Reference number: A60986; MUID:90092408; PMID:2689204
A;Accession: A60986
 parasporal crystal protein CrylC - Bacillus thuringiensis (fragment)
N;Alternate names: delta-endotoxin
C;Species: Bacillus thuringiensis
C;Date: 19-Mar-1997 #sequence_revision 18-Jul-1997 #text_change 18-Jul-1997
C;Accession: S14159
R;Convents, D.; Cherlet, M.; van Damme, J.; Lasters, I.; Lauwereys, M.
A;Title: Two structural domains as a general fold of the toxic fragment of the Bacillus A;Reference number: S14087; MUID:91153300; PMID:1847865
 A;Residues: 1-6 <BRO>
C;Comment: This hexapeptide was the longest of several N-formyl oligopeptides reported.
F;1/Modified site: N-formylmethionine #status experimental
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 28.1%; Score 9; DB 2; Le llarity 66.7%; Pred. No. 2.8e+05; Conservative 0; Mismatches 1;
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Best Local Similarity 66.7
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 surface protein tetrabrachion heavy chain - Staphylothermus marinus (fragment)
(Species: Staphylothermus marinus
Cjoate: 04-Dec-1997 #sequence_revision 04-Dec-1997 #text_change 17-Mar-1999
CjAccession: 862937
R;Peters, J.; Nitsch, M.; Kuehlmorgen, B.; Golbik, R.; Lupas, A.; Kellermann, J.; Engelh
A;Peters, J.; Nitsch, M.; Kuehlmorgen, B.; Golbik, R.; Lupas, A.; Kellermann, J.; Engelh
A;Fitle: Tetrabrachion: a filamentous archaebacterial surface protein assembly of unusua
A;Reference number: 869237; MUID:95139068; PMID:7837271
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 RESULT 10
34.5K structural protein - Leuconostoc oenos phage P54 (fragment)
5/5pecies: Leuconostoc oenos phage P54
C;Date: 31-Mar-1993 #sequence_revision 22-May-1998 #text_change 22-May-1998
C;Accession: F44817
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C;Accession: F44817
C;Aricle: Lysogeny in Leuconostoc oenos.
A;Title: Lysogeny in Leuconostoc oenos.
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A;Accession: F44817
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 .Species: Leuconostoc oenos phage P32
.Date: 31-Mar-1993 #sequence_revision 22-May-1998 #text_change 22-May-1998
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 DB 2; Length 5; 2.8e+05; ches 2; Indels
 28.1%; Score 9; DB 2; Length 5; 40.0%; Pred. No. 2.8e+05; Live 1; Mismatches 2; Indels
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28.1%; Score 9; DB 2; Length 5;
Best Local Similarity 100.0%; Pred. No. 2.88+05;
Matches 2; Conservative 0; Mismatches 0; Indels
 Righter E.K.; Lorvaud, A.; Hammes, W.P.
J. Gen. Microbiol. 137, 2135-2139, 1991
A:Title: Lysogeny in Leuconostoc oenos.

A:Reference number: A44817; MUID:92085033; PMID:1748868
A:Accession: H44817
A:Molecule type: protein
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A:Residues: 1-5 ARRS-
A:Note: sequence extracted from NCBI backbone (NCBIP:70332)
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A,Residues: 1-5 <PET>
A,Experimental source: strain Fl, DSM 3639
C;Keywords: cell wall; glycoprotein; heat-stable protein
 28.1%; Score 9; DB 2
40.0%; Pred. No. 2.8e
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STRAIN=E;
MEDLINE=96427318; PubMed=8830682;
MEDLINE=96427318; Extesvag H., Valla S.;
Rehm B.H.A., Extesvag H., Valla S.;
"A new Azotobacter vinelandii mannuronan C-5-epimerase gene (algG) is part of an alg gene cluster physically organized in a manner similar to that in Pseudomonas aeruginosa.";
J. Bacteriol. 178:5884-5889(1996).
EMBL:
 Sanchez J.-C., Rouge V., Frutiger S., Hughes G., Yan J.X.,
Hoogland C., Appel R.D., Binz P.-A., Hochstrasser D.F., Cowthorne M.;
Submitted (AUG-1998) to Swiss-Prot.
 15-DEC-1998 (Rel. 37, Created)
15-DEC-1998 (Rel. 37, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
GTP cyclohydrolase I feedback regulatory protein (P35) (Fragment)
Name=Gchfr; Synonyms=Gfrp;
 Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus
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 Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales;
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 50.0%; Score 16; DB 2; Length 7; 75.0%; Pred. No. 1.8e+06; ive 1; Mismatches 0; Indels
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 7 AA; 684 MW;
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 Conservative
 STANDARD;
 Azotobacter vinelandii.
 Mus musculus (Mouse)
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 Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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 GenCore version 5.1.6
(c) 1993 - 2004 Compugen Ltd.
 Total number of hits satisfying chosen parameters:
 1825181 segs, 575374646 residues
 P70804
 RE31_LITRU
RE32_LITRU
P83530
 Q54248
E104 LITRU
P83533
CCF1 ENTFA
 Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
 protein search, using sw model
 AL14 CARMA
BIOB CITFR
PSK DAUCA
 LOKI LOCMI
P82181
P82182
ALL2 CARMA
ALL3 CARMA
ALL4 CARMA
ALL5 CARMA
ALL5 CARMA
ALL5 CARMA
 EOSI HUMAN
YLMI YEAST
BIOA CITFR
 BLOSUM62
Gapop 10.0 , Gapext 0.5
 Q8JE81
 UniProt_02:*
1: uniprot_sprot:*
2: uniprot_trembl:*
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 length: 0
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 Perfect score:
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 Score
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Query Match
Best Local Similarity 100.
Matches 2; Conservative
 Best Local Similarity 100.
Matches 2; Conservative
 PRELIMINARY;
 STANDARD;
 NCBI_TaxID=104895;
 NCBI_TaxID=1625;
 1 FT 2
4 FT 5
 (7)
 Rubellidin 3.2
 1 FT
 - E-
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 Query Match
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FUNCTION: Mediates tetrahydrobiopterin inhibition of GTP
cyclohydrolase I. This inhibition is reversed by L-phenylalanine
 Eukaryota; Metazoa; Chordata, Craniata; Vertebrata; Buteleostomi; Amphibia; Batrachia; Anura; Neobatrachia; Hyloidea; Hylidae; Pelodryadinae; Litoria.
 Bacteria; Proteobacteria; Alphaproteobacteria; Sphingomonadales; Sphingomonadaceae; Sphingomonas.
 TISSUE-Skin secretion;
Steinborner S.T., Wabnitz P.A., Waugh R.J., Bowie J.H., Gao C.,
Tyler M.J., Wallace J.C.;
"The structure of new peptides from the Australin red tree frog
"Incoria rubella', The skin peptide profile as a probe for the sof evolutionary trends of amphibians.";
 EMBL; U88298; AAB66311.1; -. GO; GO:0016702; F:oxidoreductase activity, acting on single d.
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 y Match 37.5%; Score 12; DB 2; Length 7; Local Similarity 20.0%; Pred. No. 1.8e+06; hes 1; Conservative 4; Mismatches 0; Indels
 Score 12, DB 1; Length 7;
Pred. No. 1.8e+06;
1; Mismatches 1; Indels
 Submitted (FEB-1997) to the EMBL/GenBank/DDBJ databases.
 034028;
01-JAN-1998 (TrEMBLrel. 05, Created)
01-JAN-1998 (TrEMBLrel. 05, Last sequence update)
01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
Catechol-2,3-dioxygenase (Fragment).
 7 AA; 868 MW; 71A452D1A699D460 CRC64;
 7 AA; 806 MW; 71B5B057273B4700 CRC64;
 28-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last sequence update)
05-JUJ-2004 (Rel. 44, Last annotation update)
Rubellidin 3.1.
Litoria rubella (Desert tree frog).
 5 AA
 7 AA.
 -!- SUBUNIT: Homodimer (By similarity)
SWISS-2DPAGE; P99025; MOUSE.
 PRT;
 SEQUENCE, AND MASS SPECTROMETRY.
 37.5%;
 Direct protein sequencing.
INIT MET 0 0 0
NON TER 7 7
 Query Match
Best Local Similarity 60.v.
.hea 3; Conservative
 STANDARD;
 PRELIMINARY;
 (By similarity).
 NCBI TaxID=104895;
 SEQUENCE FROM N.A.
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 Dioxygenase.
 STRAIN=DJ77;
 RE31 LITRU
ID RE31 LITRU
AC P82072;
 SEQUENCE
 Query Match
 SEQUENCE
 034028
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 TISSUE=Skin secretion;
Wabhitz P.A., Bowle J.H., Tyler M.J., Wallace J.C.;
"Peptides from the skin glands of the Australian buzing tree frog
Litori electrica. Comparison with the skin peptides from Litoria
 Litoria rubella (Desert tree frog).
Litoria rubella (Desert tree frog).
Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Amphibia, Batrachia, Anura, Neobatrachia, Hyloidea, Hylidae,
Pelodryadinae, Litoria.
 activity.

-- SUBCELLULAR LOCATION: Secreted.
--- TISSUE SPECIFICITY: Expressed by the skin dorsal glands.
--- MASS SPECIFICITY: Expressed by the skin dorsal glands.
--- MASS SPECIFORMERY: MW=655; METHOD=FAB; RANGE=1-5; NOTE=Ref.1.
--- MAMIGATION; Amphibian defense peptide; Direct protein sequencing.
MOD REG.
--- SEQUENCE 5 AA; 656 MW; 71A9C9CB10300000 CRC64;
 rubella.";
Aust. J. Chem. 52:639-645(1999).
-!- FUNCTION: Shows neither neuropeptide activity nor antibiotic
Aust. J. Chem. 49:955-963(1996).
 ;
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 0;
 P83530;
01-UTM-2003 (TrEMBLrel. 24, Created)
01-UTM-2003 (TrEMBLrel. 24, Last sequence update)
01-UTM-2003 (TrEMBLrel. 24, Last annotation update)
Unknown protein from 2D-page (Fragment).
Lactobacillus sanfranciscensis (Lactobacillus sanfrancisco).
Bacteria, Firmicutes, Lactobacillales, Lactobacillacee;
Lactobacillus.
 glands.
 STRAIN=DSM 20451;
PubMed=12112860;
Drews O., Weiss W., Reil G., Parlar H., Wait R., Goerg A.;
 0; Indels
 0; Indels
 Length 5;
 34.4%; Score 11; DB 1; Length. 100.0%; Pred. No. 1.8e+06; ative 0; Mismatches 0; Inde.
 activity.
--- SUBCELDUAR LOCATION: Secreted.
--- TISSUS SPECIFICITY: Expressed by the skin dorsal amphibian defense peptide; Direct protein sequencing. SEQUENCE 5 AA; 570 MW; 71A9C9C862A00000 CRC64;
 34.4%; Score 11; DB 1; Le 100.0%; Pred. No. 1.8e+06; tive 0; Mismatches 0;
 28-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
 5 AA.
 PRT;
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MEDLINE=89008313; PubMed=3139658; Mori M., Sakagami Y., Ishii Y., Isogai A., Kitada C., Fujino M., Adsit J.C., Dunny G.M., Suzuki A.; Structure of cCF10, a peptide sex pheromone which induces conjugative transfer of the Streptococcus faecalis tetracycline resistance plasmath pCF10."; J. Biol. Chem. 263:14574-14578 [1988].
 01-FEB-1991 (Rel. 17, Created)
01-FEB-1991 (Rel. 17, Last sequence update)
05-JUJ-2004 (Rel. 44, Last annotation update)
Sex pheromone cCF10.
Bacteria; Firmicutes; Lactobacillales; Enterococcaee; Enterococcus.
NCBI_TaxID=1351;
 Drews O., Weiss W., Reil G., Parlar H., Wait R., Goerg A.;
"High pressure effects step-wise altered protein expression in
Lactobacillus sanfanciscensis.";
Proteomics 2:765-774(2002).
-!- MISCELLANEOUS: On the 2D-gel the determined MW of this unknown
protein is: 15 kDa.

NON_TER 6
SEQÜENCE 6 AA; 590 MW; 6DDDD452D1AAC000 CRC64;
 ul-JUN-2003 (TrEMBLrel. 24, Created)
01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
Unknown protein from 2D-page (Fragment).
Lactobacillus sanfranciscensis (Lactobacillus sanfrancisco).
Bacteria; Firmicutes; Lactobacillales; Lactobacillus.
 0; Indels
 0; Indels
 Length 6;
 Query Match
31.2%; Score 10; DB 1; I
Best Local Similarity 33.3%; Pred. No. 1.8e+06;
Matches 1; Conservative
 31.2%; Score 10; DB 2; I
25.0%; Pred. No. 1.8e+06;
ative 3; Mismatches 0;
 7 AA.
 2; Mismatches
 PRT;
 PRT;
 1; Conservative
 PRELIMINARY;
 1; Conservative
 STANDARD;
 Query Match
Best Local Similarity
Matches 1; Conserv
 PIR; A30812; A30812
 SEQUENCE.
STRAIN=DSM 20451;
 NCBI TaxID=1625;
 PubMed=12112860;
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TVNA 5
 4 TISS 7
 3 LTI 5
 CCF1 ENTFA P20104;
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STANDARD; PRT; 5 AA.

DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 44, Last sequence update)
DT 28-FEB-2003 (Rel. 44, Last sequence update)
DT 28-FEB-2003 (Rel. 44, Last sequence update)
DE 5-JUL-2004 (Rel. 44, Last annotation update)
DE 6-JUL-2004 (Rel. 44, Last annotation update)
DE 7.

SILOTIA 1.

SILOTIA 2.

Amphibia; Batrachia; Anura; Neobatrachia; Hyloidea; Hylidae;
CC Amphibia; Batrachia; Anura; Neobatrachia; Hyloidea; Hylidae;
CC Pelodryadinae; Litoria.
CC NCBI TaxID=104895;
CN NCBI TaxID=104895;
CN NCBI TaxID=104895;
CN NCBI TaxID=104895;
CN NCBI TaxID=104895;
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CN NCBI TaxID=104895;
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CN NCBI TaxID=104896;
CN NCBI TaxID=104896;
CN NCBI TaxID=104896;
CN NCBI TaxID=104896;
CN NCBI TaxID=104
 STRAIN=N2-3-11, MEDLINE=20011291; PubMed=10542330; Poehling S., Piepersberg W., Wehmeler U.F.; Poehling S., Piepersberg W., Wehmeler U.F.; Manalysis and requlation of the sec Y gene from Streptomyces griseus N2-3-11 and interaction of the SecY protein with the SecA protein."; Biochim. Biophys. Acta 1447:298-302(1999).
 Gaps
"High pressure effects step-wise altered protein expression in lactobacillus sanfranciscensis.",

Proteomics 2:765-774(2002).
-!- MISCELLANBOUS: On the 2D-gel the determined MW of this unknown protein is: 15 kDa.

NON_TER 1 1 1

NON_TER 7 7 7

SEQUENCE 7 AA; 790 MW; 6AAB02CAA731B2A0 CRC64;
 TISSUE-Skin secretion;
Wabhitz P.A., Bowie J.H., Tyler M.J., Wallace J.C.;
"Peptides from the skin glands of the Australian buzzing tree frog Litori electrica. Comparison with the skin peptides from Litoria rubella.";
Aust. J. Chem. 52:639-645(1999).
 .;
0
 0;
 Streptomyces griseus.
Bacteria, Actinobacteria, Actinobacteridae, Actinomycetales, Streptomycineae, Streptomycetaceae; Streptomyces.
NCBI_TaxID=1911;
 34.4%; Score 11; DB 2; Length 7; 50.0%; Pred. No. 1.8e+06; tive 1; Mismatches 1; Indels
 Length 7;
 0; Indels
 Last sequence update)
Last annotation update)
 7 AA; 760 MW; 72C72B01B2D1B2A0 CRC64;
 Score 11; DB 2; I
Pred. No. 1.8e+06;
 7 AA.
 1; Mismatches
 Created)
 PRT;
 34.4%;
 01-NOV-1996 (TrEMBLrel. 01,
01-NOV-1996 (TrEMBLrel. 01,
01-DEC-2001 (TrEMBLrel. 19,
 Query Match
Best Local Similarity 50.0
Matches 2; Conservative
 PRELIMINARY;
 Rplo protein (Fragment).
 Best Local Similarity 66.7
Matches 2; Conservative
 SEQUENCE FROM N.A.
 2 TLTI 5
 2 TLDV 5
 TVT 4
 2 TLT 4
 Name=rplo;
 SEQUENCE
 Query Match
 Q54248
Q54248;
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7 AA; 758 MW; 69D2C1E862D1B2A0 CRC64;
 Created)
 PRT;
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 Microbiology 145:743-753(1999).
 EMBL; AF003700; AAC35193.1; -.
 28.1%;
 01-JUL-1997 (TrEMBLrel. 04, 01-JUL-1997 (TrEMBLrel. 04, 01-DEC-2001 (TrEMBLrel. 19,
 2; Conservative
 PRELIMINARY;
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Matches 1; Conserv
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 NifK (Fragment).
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01-JUN-2000 (TYENBLrel. 14, Created)
01-JUN-2000 (TYENBLrel. 14, Last sequence update)
01-JUN-2003 (TEMBLrel. 24, Last amotation update)
10 kDa cell wall protein (Treagment).
Nicotiana tabacum (Common tobacco).
Nicotiana tabacum (Common tobacco).
Spermatophyta; Magnoliophyta; endicotyledons; core eudicots; asterids; lamids; Solanales; Solanacea; Nicotiana.
 FEBS Lett. 206:69-72(1986).
 MEDLINB=87005252; PubMed=3093276;
Mori M., Tanaka H., Sakagami Y., Isogai A., Fujino M., Kitada C.,
White B.A., An F.Y., Clewell D.B., Suzuki A.;
"Isolation and structure of the Streptococcus faecalis sex pheromone,
 Enterococcus faecalis (Streptococcus faecalis).
Bacteria; Firmicutes; Lactobacillales; Enterococcaceae; Enterococcus.
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 STRAIN=cv. PETIT HAVANA;
Blee K.A., Bonham V.A., Mitchell G.P., Robertson D., Slabas A.R.,
woltaszek P., Bolwell G.P.;
"Proceemic study of secondary cell wall proteins from transformed tobacco culture.";
 ;
 .,
 -!- MISCELLANBOUS: The N-terminus is possibly responsible specificity of pheromones to plasmids.
PIR, AZS269; AZS269 plasmids plasmids birect protein sequencing; Pheromone.
SEQUENCE 7 AA; 734 MW; 75BDD72059C05DB0 CRC64;
 1; Indels
 0; Indels
 Length 7;
 Query Match
28.1%; Score 9; DB 1; Length 7;
Best Local Similarity 100.0%; Pred. No. 1.8e+06;
Matches 2; Conservative 0; Mismatches 0; Indels
 01-0cT-1989 (Rel. 12, Created)
01-0cT-1989 (Rel. 12, Last sequence update)
05-UTL-2004 (Rel. 44, Last annotation update)
Sex pheromone cAM373 (Clumping-inducing agent) (CIA).
 72C9D2C731B2C740 CRC64;
 28.1%; Score 9; DB 1; Le
66.7%; Pred. No. 1.8e+06;
 7 AA.
 0; Mismatches
 Planta 0:0-0(2000).
--- SUBCELLULAR LOCATION: CELL WALL.
--- TISSUE SPECIFICITY: XYLEM.
GO; GO:0005618; C:cell wall; IEA.
 Direct protein sequencing; Pheromone. SEQUENCE 7 AA; 790 MW; 72C9D2C731
 PRT;
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 Conservative
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 Best Local Similarity
Matches 2; Conserv
 NCBI_TaxID=1351;
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P11932;
 Cell wall
 SEQUENCE.
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 RESULT 12
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 STRAIN=RF-1;
MEDINE=99231861; PubMed=10217509;
MEDINE=99231861; Chu M.K., Chen H.M.;
Huang T.C., Lin R.F., Chu M.K., Chen H.M.;
"Organization and expression of nitrogen-fixation genes in the aerobic nitrogen-fixing unicellular cyanobacterium Synechococcus sp. strain
 SEQUENCE FROM N.A.
MEDINE=22056123; PubMed=12060770;
MEDINE=22056123; PubMed=12060770;
Hoffmann b., Korn K., Selbig J.;
Hoffmann D., Korn K., Selbig J.;
Ployersity and complexity of HIV-1 drug resistance: a bioinformatics approach to predicting phenotype from genotype.";
Proc. Natl. Acad. Sci. U.S.A. 99:8271-8276(2002).
RNB1, AF347267; AAK32444.1; -.
SEQÜENCE 7 AA, 885 MW; 76C37731A046C700 CRC64;
 Gaps
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 Synechococcus sp. (strain PCC 8801 / RF-1) (Cyanothece PCC 8801).
Bacteria; Cyanobacteria; Chrococcales; Cyanothece.
NCBI_TaxID=41431;
 ;
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0
 28.1%; Score 9; DB 2; Length 7; 100.0%; Pred. No. 1.8e+06; tive 0; Mismatches 0; Indels
 1; Indels
Score 9; DB 2; Length 7; Pred. No. 1.8e+06; 2; Mismatches 0; Indels
 Length 7;
 Last sequence update)
Last annotation update)
 Human immunodeficiency virus 1.
Viruses; Retroid viruses; Retroviridae; Lentivirus.
NCBL_TaxID=11676;
 Last sequence update)
Last annotation update)
 7 AA; 849 MW; 7412C72AA9D5B030 CRC64;
 28 1%; Score 9; DB 2; Lularity 66.7%; Pred. No. 1.8e+06; Conservative 0; Mismatches 1.
 7 AA.
 7 AA
 01-00T-2002 (TrEMBLrel. 22, Created) 01-0CT-2002 (TrEMBLrel. 22, Last sequ 01-0CT-2002 (TrEMBLrel. 22, Last ann Truncated pol protein (Fragment).
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Incorporation and identification of multiple neuropeptides of the allatostatin superfamily in the shore crab Carcinus maenas.";

Eur. J. Biochem. 250:727-734(1997).

-!-FUNCTION: May act as a neurotransmitter or neuromodulator.

-!-SIMILARITY: Belongs to the allatostatin family.

Amidation; Direct protein sequencing; Multigene family; Neuropeptide.

SEQUENCE 5 AA; 586 MW; 672879D5AB300000 CRC64;
 SEQUENCE.
TISSUB=Cerebral ganglion, and Thoracic ganglion;
MEDLINE=98121193; PubMed=9461295;
Duve H., Johnsen A.H., Maestro J.-L., Scott A.G., Jaros P.P.,
Thorpe A.;
 30-MAY-2000 (Rel. 39, Created)
30-MAY-2000 (Rel. 39, Last sequence update)
50-MIL-2004 (Rel. 44, Last annotation update)
65-UIL-2014 (Rel. 44, Last annotation contacts an early (Continustration 14.
Carcinus maenas (Common shore crab) (Green crab).
Bukaryota; Metazoa; Arthropoda; Crustacea; Malacostraca; Bumalacostraca; Bucarida; Decapoda; Plecoyemata; Brachyura; NCBI_TAXID=6759;
NCBI_TAXID=6759;
 Query Match 25.0%; Score 8; DB 1; Length 5; Best Local Similarity 66.7%; Pred. No. 1.8e+06; Matches 2; Conservative 0; Mismatches 1; Indel
 5 AA.
 PRT;
 STANDARD;
2 TL 3
 AL14 CARMA
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 AL14 CARMA
AL14 CARMA
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DT 30-MAY.
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

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Database :

|           | Description    |          | Aay40738 S4 deriva | Aab30076 Scaffold |          | יני<br>ט |          | י<br>ני<br>ני |          | •        | יי<br>מים<br>מים | , ,      | Trans    | ٠.       | v (      | 20,       | _        | Aay64225 Cadherin- |          | Adg39396 Tryptic 4 |          | Strept   | L C      | ) (      | ٠ ٥      | 0 0      | Aaw/2290 Hexapepti | 250        | Adl15755 Novel tra |
|-----------|----------------|----------|--------------------|-------------------|----------|----------|----------|---------------|----------|----------|------------------|----------|----------|----------|----------|-----------|----------|--------------------|----------|--------------------|----------|----------|----------|----------|----------|----------|--------------------|------------|--------------------|
| SUMMARIES | ID             | AAVA0720 | 00/02/04           | AAB30076          | AAY40737 | AAB30075 | AAY40736 | AAB30074      | ADG63308 | AAY40735 | AAB30073         | AAU85454 | ADP29477 | AAM51422 | ABD55410 | AAME 0711 | TT/OCHUC | AA164225           | ABB84102 | ADG39396           | ADO03767 | ABU12234 | ABU12235 | AAW39453 | AAW75358 | AAW75290 | AAE31832           | מחנים דרוג | 0                  |
|           | DB             | - 6      | 1 6                | n                 | N        | m        | N        | m             | ω        | 7        | m                | 'n       | œ        | 4        | · v      | , c       | ۱ (      | าเ                 | n e      | <b>x</b>           | α        | 9        | 9        | ~        | ~        | ~        | v                  | 0          | 0                  |
|           | Length         | 7        | ٠ (                | _                 | 7        | 7        | 7        | 7             | 9        | 7        | 7                | Ŋ        | 9        | G        | ı        | 7 (       | ٦ -      | ۱ -                | - 1      |                    | 7        | Ŋ        | Ŋ        | 9        | 9        | 9        | 9                  | . (4       | 0                  |
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|           | Score          | 28       | 0                  | 4 C               | 52       | 25       | 24       | 24            | 22       | 21       | 21               | 20       | 20       | 19       | 18       | 18        | , c      | 0 0                | 0 0      | ο c                | ρį       | 17       | 1.7      | 17       | 17       | 17       | 17                 | 17         | i                  |
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| Aar07656 Ribonucle Aay40723 33 deriva Aab50062 Scaffold Aam44200 H11 bindi Aam4420 H11 bindi Aam4420 H11 bindi Aam4420 H11 bindi Aam4420 H11 bindi Aam53345 Portion o Aar053345 Portion o Aar06443 Gal 4 pro Aar0753 Murine Ga Aay0491 GAl4 DNA Aab03571 Nuclear c Aab36961 Peptide # Abb03571 Nuclear c Aab36961 Peptide # Abb03511 Human imm Ab07263 Novel pro Abr4558 Staphyloc Abr4536 Staphyloc Abr4636 Staphyloc |            |                                               |               | protein structure. | stabilize antigen; vaccine;             |            |              |             |               |               |                      | , E              |                 | ng antigens used as vaccines. |                  | Wequivalent derivatives of the a scaffold protein. S4 is a beta sheet. Peptides (AAY40601-fold protein which contains at m 10% alpha helix and contains at the is constructed of beta strands Al-A3, or any see sequences. The beta strands see sequences. The beta strands is with each strand connected to ea beta sandwich architecture. Included in the structures the si, with the structures to strands are connected to each to one of the loops binds to a is used to stabilize antigens                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| AARO7656 AAX40723 AAB30062 AAM44200 AAM44200 AAM44200 AAM93089 AAR93089 AAW93089 AAW92487 AAW92487 AAW92487 AAW92487 AAW92487 AAW92487 AAW92487 AAW92487 AAW92487 AAW92487 AAW92487 AAW92487 AAW92487 AAW92487 AAW92487 AAW92487 AAW92487                                                                                                                                                                              | ALIGNMENTS | 7 AA.                                         |               | nd of scaffold     | and; beta sheet;<br>gent.               |            |              |             |               |               |                      | enboom H, Sablon |                 | for stabilizin                | English.         | functionall<br>trus part of<br>is part of<br>is part of<br>is part of<br>is part of<br>in less than<br>caffold pro-<br>culude beta<br>and 86/85/5<br>in generat<br>in genera |
| 11111100000000000000000000000000000000                                                                                                                                                                                                                                                                                                                                                                                 |            | ard; peptide;                                 | (first entry) | #12, beta strand   | beta str<br>peutic a                    |            |              |             | 98EP-00870065 | 98EP-00870065 | ETICS NV.            | on S, Hoog       | 58/46.          | protein, useful               | 6; 105pp;        | AAY40727-Y40748 are (AAY40607) which fer get be petide which form a single sulfide bond, contain beta-strands. The soft and may also in 19 equivalent derivate sheets \$1/84/\$3 thional beta strands in constructed of two san \$8/\$5/\$2/\$2/\$3 and \$8/\$5/\$2/\$2/\$3 and \$8/\$5/\$2/\$2/\$3 and \$6/\$5/\$2/\$2/\$3 \$3 and \$6/\$5/\$2/\$2/\$2/\$3 and \$6/\$5/\$2/\$2/\$2/\$3 and \$6/\$5/\$2/\$2/\$2/\$2 and \$6/\$5/\$2/\$2/\$2/\$2/\$2/\$2/\$2/\$2/\$2/\$2/\$2/\$2/\$2/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 200 200 200 200 200 200 200 200 200 200                                                                                                                                                                                                                                                                                                                                                                                |            | T 1<br>738<br>AAY40738 standard;<br>AAY40738; | 01-DEC-1999 ( | 4 derivative       | Scaffold protein;<br>tumour; chemothers | Synthetic. | EP947582-A1. | 6-OCT-1999. | 1-MAR-1998;   | 1-MAR-1998;   | (INNO-) INNOGENETICS | Desmet J, Huft   | WPI; 1999-54295 | New scaffold pr               | Disclosure, Page | Sequences AAY40<br>84 Peptide (AAY<br>beta strand pep<br>Y40609) togethe<br>least 1 disulfin<br>at least 6 beta<br>strandomally eq<br>furctionally eq<br>form two beta si<br>the next by hyd<br>If the addition<br>scaffold is con<br>scaffold is con<br>scaffold is con<br>receptor or anti-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 01 01 01 01 01 01 01 01 01 01 01 01 01 0                                                                                                                                                                                                                                                                                                                                                                               |            | 15.4<br>4.0                                   |               | DE S               |                                         |            |              | 0           | m             | m             |                      |                  |                 |                               |                  | \$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

AAY40737 standard; peptide; 7 AA.

AAY40737 RESULT

AAY40737;

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The present invention is concerned with producing scaffold proteins based upon the human CTLA-4 SCA domain. These scaffold proteins can be used as a scaffold to bind antigen- or receptor-binding fragments. These can be used in the treatment of diseases such as cancer, atherosclerosis, thrombosis, osteoporosis, rheumatoid arthritis and diabetic retinopathy. Sequences AAB29930-B29939 were used in the production of the proteins of
 Scaffold composed of single-chain polypeptide having beta sandwich architecture carrying new and randomized peptide sequences useful as supporting framework and carrying antigen- or receptor binding fragments.
or whole proteins such as receptors, or their fragments. It may be used to bind two separate molecules. For example, one surface of the scaffold may be bound to a protein which binds to a tumour antigen. This will target the complex to tumour cells. Another surface may be bound to a cytotoxic molecule or an autoimmune antibody which may then kill the tumour cells. Therefore the scaffold protein may be used to target chemotherapeutic agents to specific cells. It may also be used to stabilize individual peptides in a peptide library and may be used in diagnostic techniques, and to stabilize antigens used as vaccines
 Human, CTLA-4; scaffold protein; antigen-binding; receptor-binding; SCA domain; cancer; thrombosis; osteoporosis, rheumatoid arthritis; diabetic retinopathy; atherosclerosis.
 87.5%; Score 28; DB 2; Length 7; 100.0%; Pred. No. 1.7e+06; ive 0; Mismatches 0; Indels
 Scaffold protein SCA S4 peptide SEQ ID NO: 137.
 Sablon
 Hoogenboom H,
 Disclosure; Page 15; 68pp; English
 AAB30076 standard; peptide; 7 AA.
 99WO-EP002283.
 99WO-EP002283.
 (first entry)
 6; Conservative
 (INNO-) INNOGENETICS NV.
 Hufton S,
 WPI; 2000-665002/64.
 Query Match
Best Local Similarity
Matches 6; Conserv
 FILTIS 6
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 Sequence 7 AA;
 WO200060070-A1
 Sequence 7 AA;
 01-APR-1999;
 01-APR-1999;
 09-FEB-2001
 12-OCT-2000
 Desmet J,
 Synthetic
 AAB30076;
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Sequences AAY40727-Y40748 are functionally equivalent derivatives of the S4 peptide (AAY40607) which forms part of a scaffold protein. S4 is a beta strand peptide which forms part of a beta sheet. Septides (AAY40601-10 together form a single-chain scaffold protein which contains at 140601 together form a single-chain scaffold protein which contains at ceast 1 disulfide bond, contains less than 10% alpha helix and contains at strands of series of the scaffold protein is constructed of beta strands and also include beta strands A1-A3, or any contains the next by hydrogen bonds, which generate a beta sandwich architecture. If the next by hydrogen bonds, which generate a beta sandwich architecture. If the additional beta strands A1-A3 are included in the structures caffold is constructed of two beta sheets, with the structures caffold is constructed of two beta sheets, with the structures of their via amino acid loops, where at least one of the loops binds to a other via amino acid loops, where at least one of the loops binds to a ceptor or antigen. The scaffold protein is used to stabilize antigens or whole proteins such as receptors, or their fragments. It may be used to target the complex to tumour cells. Another surface may be bound to a cytotoxic molecule or an autoimmume antibody which may then kill the target the complex to tumour cells. Another surface may be bound to a cytotoxic molecule or an autoimmume antibody which may then kill the tumour cells. Therefore the scaffold protein may be used to target chemotherapeutic agents to specific cells. It may also be used to stabilize individual peptides in a peptide library and may be used in city and to stabilize antigens used as vaccines
 New scaffold protein, useful for stabilizing antigens used as vaccines.
 Scaffold protein; beta strand; beta sheet; stabilize antigen; vaccine; tumour; chemotherapeutic agent.
 Gaps
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 84 derivative #11, beta strand of scaffold protein structure.
 Indels
 Length 7;
 78.1%; Score 25; DB 2; Le 83.3%; Pred. No. 1.7e+06; iive 1; Mismatches 0;
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 Sablon
 Hoodenboom H,
 Disclosure; Page 6; 105pp; English
 98EP-00870065.
 (first entry)
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 (INNO-) INNOGENETICS NV.
 Hufton S,
 WPI; 1999-542958/46.
 Best_Local Similarity
Matches 5; Conserv
 Sequence 7 AA;
 31-MAR-1998;
 01-DEC-1999
 EP947582-A1
 06-OCT-1999
 Desmet J,
 Synthetic.
 Query Match
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RESULT 4

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Gaps

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Length 7; Indels

87.5%; Score 28; DB 3; Le 100.0%; Pred. No. 1.7e+06; cive 0; Mismatches 0;

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FTLTIS 6

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Best\_Local Similarity Matches 6; Conserv

Query Match

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Sablon

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Sequences AAY40727-Y40748 are functionally equivalent derivatives of the S4 peptide (AAY40607) which forms part of a scaffold protein. S4 is a beta strand peptide which forms part of a beta sheet. Peptides (AAY40601-Y40609) together form a single-chain scaffold protein which contains at least 1 disulfide bond, contains less than 10% alpha helix and contains at least 1 disulfide bond, contains less than 10% alpha helix and contains car least 6 beta-strands. The scaffold protein is constructed of beta strands S1-S6, and may also include beta strands A1-A3, or any control or sheet sheets S1/S4/S3 and S6/S5/S2 with each strand connected to form two beta sheets S1/S4/S3 and S6/S5/S2 with each strand connected to the next by hydrogen bonds, which generate a beta sandwich architecture. If the additional beta strands A1-A3 are included in the structures constituted of two beta sheets, with the structures and scaffold is constructed of two beta sheets, with the structures are coher via amino acid loops, where at least one of the loops binds to a receptor or antigen. The scaffold protein is used to stabilize antigens or whole proteins such as receptors, or their fragments. It may be used to bind two separate molecules. For example, one surface of the scaffold carget the complex to tumour cells. Therefore may be bound to a protein which binds to a tumour antibody which may then kill the tumour cells. Therefore the scaffold protein may be used to target the complex to compend to specific cells. It may also be used to stabilize individual peptides in a peptide library and may be used in diagnostic techniques, and to stabilize antigens used as vaccines
 New scaffold protein, useful for stabilizing antigens used as vaccines.
 Human, CTLA-4; scaffold protein; antigen-binding; receptor-binding;
SCA domain; cancer; thrombosis; osteoporosis, rheumatoid arthritis;
diabetic retinopathy; atherosclerosis.
 Scaffold protein SCA S4 peptide SEQ ID NO: 135.
 Hoodenboom H,
 Disclosure; Page 6; 105pp; English.
 AAB30074 standard; peptide; 7 AA.
 98EP-00870065
 98EP-00870065
 75.0%;
 99WO-EP002283.
 99WO-EP002283.
 (first entry)
 (INNO-) INNOGENETICS NV.
 Conservative
 Hufton S,
 WPI; 1999-542958/46.
 Local Similarity
les 5; Conserv
 1 FTLTIS 6
 |||:||
FTLSIS
 Sequence 7 AA;
 WO200060070-A1
 31-MAR-1998;
 31-MAR-1998;
 09-FEB-2001
 01-APR-1999;
 01-APR-1999;
 12-OCT-2000,
 Desmet J,
 Synthetic.
 AAB30074;
 Query Match
 Matches
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 The present invention is concerned with producing scaffold proteins based upon the human CTIA-4 SCA domain. These scaffold proteins can be used as a scaffold to bind antigen- or receptor-binding fragments. These can be used in the treatment of diseases such as cancer, atherosclerosis, thrombosis, osteoporosis, rheumatoid arthritis and diabetic retinopathy. Sequences AAB29930-B29939 were used in the production of the proteins of
 Scaffold composed of single-chain polypeptide having beta sandwich architecture carrying new and randomized peptide sequences useful as supporting framework and carrying antigen- or receptor binding fragments.
 Scaffold protein; beta strand; beta sheet; stabilize antigen; vaccine; tumour; chemotherapeutic agent.
 Gaps
 Human, CTLA-4; scaffold protein; antigen-binding; receptor-binding;
SCA domain; cancer; thrombosis; osteoporosis, rheumatoid arthritis;
diabetic retinopathy; atherosclerosis.
 .
0
 84 derivative #10, beta strand of scaffold protein structure.
 78.1%; Score 25; DB 3; Length 7; 83.3%; Pred. No. 1.76+06; 1; Mismatches 0; Indels
 Scaffold protein SCA S4 peptide SEQ ID NO: 136.
 Sablon E;
 Hufton S, Hoogenboom H,
 Disclosure, Page 15, 68pp, English.
 AAB30075 standard; peptide; 7 AA.
 AAY40736 standard; peptide; 7 AA.
 .99WO-EP002283
 99WO-EP002283
 (first entry)
 (first entry)
 Similarity 83.3
 (INNO-) INNOGENETICS NV.
 WPI; 2000-665002/64.
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YTLTIS 7
 FTLTIS 6
 WO200060070-A1.
 Sequence 7 AA;
 09-FEB-2001
 01-APR-1999;
 01-APR-1999;
 01-DEC-1999
 12-OCT-2000
 06-OCT-1999.
 EP947582-A1
 Synthetic.
 Desmet J,
 AAB30075;
 Query Match
Best Local S
 Synthetic
 AAY40736;
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Gaps

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Score 24; DB 2; Length 7; Pred. No. 1.7e+06; 1; Mismatches 0; Indels

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Best Loc Matches

RESULT 5

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 The present invention is concerned with producing scaffold proteins based upon the human CTLA-4 SCA domain. These scaffold proteins can be used as a scaffold to bind antigen- or receptor-binding fragments. These can be used in the treatment of diseases such as cancer, atherosclerosis, thrombosis, osteoporosis, rheumatoid arthritis and diabetic retinopathy. Sequences AAB29930-B29939 were used in the production of the proteins of the invention
 Scaffold composed of single-chain polypeptide having beta sandwich architecture carrying new and randomized peptide sequences useful as supporting framework and carrying antigen- or receptor binding fragments.
 cytostatic, virucide, antifungal; antiparasitic, antibacterial; protezoacide, gene therapy; diagnosis; tumor; fungus; virus; parasite; bacterium; protezoan; mycoplasma; acid cation chelator.
 Gaps
 New compound, useful for preparing a composition for diagnosing or treating tumor or infections caused by fungus, virus, parasite,
 .,
 Antibody 734 heavy chain variable region last 6 amino acids.
 Score 24; DB 3; Length 7; Pred. No. 1.7e+06; 1; Mismatches 0; Indels
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 Mcbride WJ,
 Sablon E;
 ß,
 Hoodenboom H,
 bacterium, protozoan or mycoplasm.
 Disclosure; Page 15; 68pp; English
 Leung
 ADG63308 standard; peptide; 6 AA.
 17-MAY-2002; 2002US-00150654.
 16-MAY-2003; 2003WO-GB002110.
 75.0%;
83.3%;
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 (first entry)
 IMMU-) IMMUNOMEDICS INC
 5; Conservative
 Hansen
(INNO-) INNOGENETICS NV.
 WPI; 2004-042533/04.
 Desmet J, Hufton S,
 (MCCA/) MCCALL J D.
 WPI; 2000-665002/64.
 Query Match
Best Local Similarity
 1 FTLTIS 6
 FILSIS
 WO2003097105-A1.
 Goldenberg DM,
 Sequence 7 AA;
 Homo sapiens
 11-MAR-2004
 27-NOV-2003.
 ADG63308;
 Matches
 RESULT 7
 ADG63308
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The invention relates to a compound, useful for preparing a composition for diagnosing or treating tumor or infections caused by fungus, virus, parasite, bacterium, protozoan or mycoplasma, comprising the formula (I): X-Phe-Lys(HSG)-D-Tyr-Lys(HSG)-Lys(Y)-NH2 (I). The compound includes a

Example 24; SEQ ID NO 18; 119pp; English.

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cc hard acid cation chelator at X or Y, and a soft acid cation chelator at remaining X or Y. The hard acid cation chelator includes a carboxylate or amine group. It comprises NOTA (1.4,7-10-traizacyclonomane-N,N,"-triacetic acid), DOTA (1.4,7-10-tetrazacyclonodecanetetraacetic acid), DTA (diethylenetriaminepentaacetic acid), or TETA (p-bromoacetamido-benzyl-ctraethylaminetetraacectic acid), or TETA (p-bromoacetamido-benzyl-comprises Teodylaminetetraacectic acid). It includes a cation consisting of tetraethylamineteraacectic acid). It includes a cation consisting of includes a thiol group. It comprises Teod-Cys

(thiosemicarbazinylacytysteine) or Teoa-Cys
(thiosemicarbazinylacytycysteine) or Teoa-Cys
(thiosemicarbazinylacytycysteine). It includes a cation consisting of transition metals, lanthanides, archindes, TC, Re or Bi. The compound is useful for preparing a composition for diagnosing or treating tumor or useful for preparing a composition for diagnosing or treating tumor or infections caused by fungus, virus, parasite, bacterium, protozoan or composition can be fused or recognised and bound by an antibody, especially invention can be fused or recognised and bound by an antibody, especially can bispecific single-end and promise region from the human 734 antibody. The peptide sequence is used to generate a fusion antibody or fragment that will recognise and bind the peptides of the invention.
 Sequences AAY40727-Y40748 are functionally equivalent derivatives of the $4 peptide (AAY40607) which forms part of a scaffold protein. $4 is a beta strand peptide which forms part of a beta sheet. Peptides (AAY40601-Y40609) together form a single-chain scaffold protein which contains at least 1 disulfide bond, contains less than 10% alpha helix and contains at least 6 beta-strands. The scaffold protein is constructed of beta strands $3.58, and may also include beta strands $1.43, or any functionally equivalent derivative of these sequences. The beta strands form two beta sheets $1/$4/$3 and $6/$5/$2 with each strand connected to
 .
0
 New scaffold protein, useful for stabilizing antigens used as vaccines.
 Scaffold protein; beta strand; beta sheet; stabilize antigen; vaccine; tumour; chemotherapeutic agent.
 Gaps
 0
 S4 derivative #9, beta strand of scaffold protein structure.
 68.8%; Score 22; DB 8; Length 6; 66.7%; Pred. No. 1.7e+06; iive 2; Mismatches 0; Indels
 Ä
 Sablon
 Hoodenboom H,
 Disclosure, Page 6; 105pp; English.
 AAY40735 standard; peptide; 7 AA.
 98EP-00870065.
 98EP-00870065.
 (first entry)
 4; Conservative
 (INNO-) INNOGENETICS NV.
 Desmet J, Hufton S,
 WPI; 1999-542958/46.
 Best Local Similarity
 7
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1 TVTVSS 6
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 Seguence 6 AA;
 31-MAR-1998;
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 06-OCT-1999
 EP947582-A1
 Synthetic.
 AAY40735
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the next by hydrogen bonds, which generate a beta sandwich architecture. If the additional beta strands Al-A3 are included in the structure the scaffold is constructed of two beta sheets, with the structures of Al/Si/Sal/Sal Sof/S5/S2/A2/A3. The beta strands are connected to each other via amino acid loops, where at least one of the loops binds to a receptor or antigen. The scaffold protein is used to stabilize antigens or whole proteins such as receptors, or their fragments. It may be used to bind two separate molecules. For example, one surface of the scaffold may be bound to a protein which binds to a tumour antigen. This will the target the complex to tumour cells. Another surface may be bound to a cytotoxic molecule or an autoimmune antibody which may then kill the tumour cells. Therefore the scaffold protein may also be used to carget chemocherapeutic agents to specific cells. It may also be used to stabilize individual peptides in a peptide library and may be used in diagnostic techniques, and to stabilize antigens used as vaccines
 Sequence 7 AA;
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Gaps
 ..
0
 Score 21; DB 2; Length 7;
Pred. No. 1.7e+06;
2; Mismatches 0; Indels
Query Match
Best Local Similarity 66.7%;
Matches 4; Conservative
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à g RESULT 9

AAB30073 standard; peptide; 7 AA AAB30073;

Scaffold protein SCA S4 peptide SEQ ID NO: 134. (first entry) 09-FEB-2001

Human, CTLA-4, scaffold protein, antigen-binding, receptor-binding, SCA domain; cancer; thrombosis; osteoporosis, rheumatoid arthritis;

diabetic retinopathy; atherosclerosis.

Synthetic.

WO200060070-A1.

12-OCT-2000.

99WO-EP002283. 01-APR-1999;

99WO-EP002283. 01-APR-1999;

(INNO-) INNOGENETICS NV.

Sablon E; Hoodenboom H, Hufton S, Desmet J,

WPI; 2000-665002/64.

Scaffold composed of single-chain polypeptide having beta sandwich architecture carrying new and randomized peptide sequences useful as supporting framework and carrying antigen- or receptor binding fragments.

Disclosure; Page 15; 68pp; English.

The present invention is concerned with producing scaffold proteins based upon the human CTLA-4 SCA domain. These scaffold proteins can be used as a scaffold to bind antigen- or receptor-binding fragments. These can be used in the treatment of diseases such as cancer, atherosclerosis, thrombosis, osteoporosis, rheumatoid arthritis and diabetic retinopathy. Sequences AAB29930-B29939 were used in the production of the proteins of the invention 

0

Gaps

. 0

Length 5; Indels

1 62.5%; Score 20; DB 5; Le Similarity 100.0%; Pred. No. 1.7e+06; 4; Conservative 0; Mismatches 0;

Query Match Best Local Similarity

Best Loc Matches

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Sequence 5 AA;

invention

Sequence 7 AA;

```
The invention relates to diagnosing the presence of colon cancer, metastases of colon cancer, staging colon cancer, monitoring colon cancer for the onset of metastasis or monitoring a change in stage of colon cancer in a patient. The method involves determining a colon specific gene (CSG) in cells, tissues or bodily fluids and comparing it with levels of CSG in cells, tissues or bodily fluids from a normal human control. Colon cancer can be treated by administering a molecule which down regulates the expression or activity of CSG. An immune response against a target cell expressing CSG can be induced by delivering an immune response is mounted. Therapeutic agents are useful for imaging an immune response is mounted. Therapeutic agents are useful for imaging colon cancer in a patient by administering an agent labelled with paramagnetic ions or a radioisotope to the patient. They are also useful for preventing the onset of colon cancer, and in diagnosis and treatment of the disease. Sequences AAU85502 represent human colon especific protein antibody binding sites used in the method of the
 ò
 Gaps
 Diagnosing, staging or monitoring colon cancer involves determining a colon specific gene in cells, tissues or body fluids in patient, and comparing it with levels of the gene from a normal human control.
 .
 Human colon specific polypeptide antibody binding site #31.
 Score 21; DB 3; Length 7; Pred. No. 1.7e+06; 2; Mismatches 0; Indels
 Human, colon specific gene, CSG, cytostatic, metastasis, colon cancer staging, antibody binding site.
 2; Mismatches
 Disclosure; Page 21; 52pp; English.
 AAU85454 standard; peptide; 5 AA.
 65.6%;
 17-JUL-2001; 2001WO-US022454.
 17-JUL-2000; 2000US-00618596.
 (first entry)
Query Match
Best Local Similarity 66.7
Matches 4; Conservative
 (DIAD-) DIADEXUS INC
 WPI; 2002-171815/22.
 Sun Y;
 9
 1 FTLTIS
 WO200206515-A2.
 21-MAY-2002
 Homo sapiens,
 24-JAN-2002
 Diagnosing,
 Macina RA,
 AAU85454;
 RESULT 10
 AAU85454
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22-MAY-2003; 2003US-0472420P.
22-MAY-2003; 2003US-0472430P.
09-JUN-2003; 2003US-047669P.
08-JUL-2003; 2003US-0485218P.
08-JUL-2003; 2003US-0485224P.
08-JUL-2003; 2003US-0485325P.
14-JUL-2003; 2003US-048646P.
15-JUL-2003; 2003US-0486480P.
15-JUL-2003; 2003US-0486480P.
15-JUL-2003; 2003US-0486891P.
15-JUL-2003; 2003US-0486891P.
15-JUL-2003; 2003US-0486891P.
15-JUL-2003; 2003US-0486891P.
08-MG-2003; 2003US-0433370P.
08-AUG-2003; 2003US-0433370P.
 31-JAN-2000; 2000JP-00022469.
 (first entry)
 4; Conservative
 WPI; 2004-348438/32
 Ouery Match
Best Local Similarity
Matches 4; Conserv
 1 FTLT 4
 JP2001213898-A.
 Sequence 6 AA;
 Unidentified
 08-AUG-2003;
 08-JAN-2002
 07-AUG-2001
 AAM51422;
 RESULT 12
 AAM51422
 g
 à
 Cytostatic; Antiinflammatory; Immunosuppressive; Antibacterial; Virucide; cancer; inflammatory; immune; human secreted protein.
 Human secreted protein SEQ ID #244.
 ADP29477 standard; protein; 6 AA.
 29-AUG-2002; 2002US-0406579F.
29-AUG-2002; 2002US-0406585F.
29-AUG-2002; 2002US-0406588F.
29-AUG-2002; 2002US-0406688F.
29-AUG-2002; 2002US-0406611F.
29-AUG-2002; 2002US-0406612F.
29-AUG-2002; 2002US-0406642F.
29-AUG-2002; 2002US-0406642F.
29-AUG-2002; 2002US-0406642F.
29-AUG-2002; 2002US-0406648F.
29-AUG-2002; 2002US-0406653F.
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29-AUG-2002; 2002US-0406658F.
29-AUG-2002; 2002US-0406665F.
17-SEF-2002; 2002US-0406665F.
 2002US-0411022P.
2002US-0411023P.
2002US-0411024P.
2002US-0411032P.
 2003US-0467199P.
2003US-046720IP.
2003US-0467203P.
2003US-0467230P.
2003US-0471336P.
 17-SEP-2002; 2002US-0411048P.
17-SEP-2002; 2002US-0411052P.
17-SEP-2002; 2002US-0411055P.
 17-SEP-2002; 2002US-0410948P.
17-SEP-2002; 2002US-0410949P.
17-SEP-2002; 2002US-0410953P.
 2002US-0410961P.
2002US-0410962P.
2002US-0411019P.
 17-SEP-2002; 2002US-0411073P.
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17-SEP-2002; 2002US-0411111P.
 2002US-0411037P.
2002US-0411041P.
 2002US-0411046P.
 18-APR-2003; 2003US-0463700P
 2003US-0463708P
 2003US-0463716P
 2003US-0463732P
 17-SEP-2002; 2002US-0410957P.
17-SEP-2002; 2002US-0410958P.
 2002US-0411045P
 2002US-0410959P.
 2002US-0410960P
 28-AUG-2003; 2003WO-US026780
 (first entry)
 WO2004035732-A2.
 02-MAY-2003; 2
19-MAY-2003; 2
19-MAY-2003; 2
 17-SEP-2002;
17-SEP-2002;
17-SEP-2002;
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17-SEP-2002;
 17-SEP-2002;
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17-SEP-2002;
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 18-APR-2003;
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 7-SEP-2002;
 17-SEP-2002;
17-SEP-2002;
 17-SEP-2002;
 Homo sapiens
 12-AUG-2004
 29-APR-2004
 ADP29477;
 ADP29477
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New nucleic acid molecule for diagnosing, preventing or treating diseases such as proliferative (e.g. cancer), inflammatory, immune, metabolic, genetic, bacterial and viral diseases.
 The present invention relates to an isolated nucleic acid molecule encoding a polypeptide which is believed to be cytostatic, antibiariammatory, immunosuppressive, antibacterial and virucidal. The composition and methods are useful for diagnosing, preventing and treating diseases such as proliferative (e.g. cancer), inflammatory, immune, metabolic, genetic, bacterial and viral diseases. The present sequence represents a human secreted protein. The present sequence is available on WIPOWEB and is not in the specification.
 Gaps
 Williams LT, Chu K, Lee E, Hestir K, Beaurang PA, Behrens D;
Halenbeck RF, Huang MM, Kothakota S, Haishan L, Linnemann T;
Pierce K, Wang Y, Wong JGP, Wu G, Zhang H;
 0
 Indels
 62.5%; Score 20; DB 8; Length 6; 100.0%; Pred. No. 1.7e+06; ive 0; Mismatches 0; Indels
 vulnerary; injury healing;
 Integrin activating peptide SEQ ID NO 1.
 Claim 1; SEQ ID NO 1475; 428pp; English
 (FIVE-) FIVE PRIME THERAPEUTICS INC.
 AAM51422 standard; peptide; 6 AA.
 31-JAN-2000; 2000JP-00022469.
 Integrin stimulant; vulnerary postsurgical tissue recovery.
2003US-0493577P
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An isolated antibody has been developed which binds specifically to cytotoxic lymphocyte maturation factor (CLMF) and neutralises CLMF induced proliferation by more than 50% in a CLMF dependent T cell growth assay and/or inhibits binding of at least 60% of the factor to phytohaemagglutinin (PHA) activated peripheral blood lymphocyte (PBL) clasts as determined in a CLMF receptor binding assay. CLMF is a heterodimeric protein having a molecular weight band of 75 kD, determined by sodium dodecyl sulphate-polyaczylamide gel electrophoresis (SDS-PAGE) under non-reducing and/or reducing conditions, providing a first subunit having a molecular weight of 35 kD. The present sequence represents a tryptic 40 kD cLMP peptide off polyvinylidene diffluoride (PVDF), from an example of the present invention. The antibody can be used for the purification and/or detection of CLMP. It is also used in therapeutic treatments which require the present sequence selective blooking of proliferation and activation of cytotoxic T colliferation and activation of cytotoxic T
 Cytotoxic lymphocyte maturation factor; CLMF; cytokine; synergize; interleukin 2; IL-2; human; lymphoblastoid cell; detection; purifying; proliferation; cytotoxic T cell; transplantation; antibody.
 New antibodies to cytotoxic lymphocyte maturation factor - useful for detecting, purifying, and/or blocking proliferation and activation of cytotoxic T cells, such as in transplantation(s).
 56.2%; Score 18; DB 2; Length 7; 100.0%; Pred. No. 1.7e+06; ive 0; Mismatches 0; Indels
 Tryptic 40 kD subunit CLMF peptide off PVDF #4.
 Pan YE,
 cells (CTLs) such as in transplantation
 Gately MK,
 AAW58711 standard; peptide; 7 AA
 Example 3; Col 23; 71pp; English.
 89US-00455708.
90US-00520935.
90US-00572284.
92US-00857023.
94US-00205011.
 (HOFF) HOFFMANN LA ROCHE INC
 95US-00460061.
 (first entry)
 4; Conservative
 WPI; 1998-413150/35.
 Query Match
Best Local Similarity
Matches 4; Conserv
 Ŋ
 4
 വ
 TLTI
 Podlaski FJ, ;
Chizzonite RA,
 Sequence 7 AA;
 Homo sapiens
 2 TLTI
 17-SEP-1998
 02-JUN-1995;
 US5780597-A.
 09-MAY-1990;
27-AUG-1990;
 22-DEC-1989;
 02-MAR-1994;
 14-JUL-1998
 24-MAR-1992;
 N
 AAW58711;
 AAW58711
ID AAW
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 An injury healing and postsurgical tissue recovering integrin activating
 ABR55412-20 represent conserved region of a phospholipase C (PLC)-zeta polypeptide. PLC-zeta polypeptides are capable of triggering calcium oscillations in occytes. The PLC-zeta isoform is expressed specifically in mammalian sperm, and is an essential protein for mammalian fertilisation and embryo development. PLC-zeta polynucleotides are useful for preparing a composition for diagnosing or treating infertility
 useful
an
 Gaps
 New phospholipase C-zeta gene, useful for preparing a composition for diagnosing or treating infertility,
 Gaps
 Phospholipase C zeta; PLC-zeta; calcium oscillation; oocyte; sperm; embryo; infertility.
 The invention relates to novel peptides with vulnerary activity, for injury healing and postsurgical tissue recovery by acting as integrin stimulant
 ;
0
 Amino acid sequence of a conserved region of PLC-zeta protein.
 ;
 Score 19; DB 4; Lengtn b; Pred. No. 1.00+06;
 Indels
 Length 5;
 Ouery Match 56.2%; Score 18; DB 6; Le:
Best Local Similarity 100.0%; Pred. No. 1.7e+66;
Matches 4; Conservative 0; Mismatches 0;
 2; Mismatches
 (UYWA-) UNIV WALES COLLEGE OF MEDICINE.
 Claim 10; Page 68; 107pp; English.
 ABR55418 standard; peptide; 5 AA
 Claim 1; Page 3; 11pp; Japanese.
 (HISM) HISAMITSU PHARM CO LTD,
 59.4%;
 2001GB-00025498.
2002GB-00014945.
 18-OCT-2002; 2002WO-GB004739
 (first entry)
 Query Match
Best Local Similarity 60.0
Matches 3; Conservative
 WPI; 2001-629610/73
 WPI; 2003-421400/39
 1 FILTI S
 S
 WO2003035678-A2
 Sequence 6 AA;
 Sequence 5 AA;
 Unidentified
 24-OCT-2001;
28-JUN-2002;
 29-JUL-2003
 01-MAY-2003
 ABR55418;
 Lai T;
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ABR55418

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Hulmes JD;

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Gaps

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Claim 99; Page 216; 252pp; English
 (ADHE-) ADHEREX TECHNOLOGIES INC
 Byers S;
 AAY64225 standard; peptide; 7 AA.
 98US-00073040.
98US-00187859.
99US-00234395.
99US-00264516.
 99WO-CA000363
 (first entry)
 Gour BJ,
 WPI; 2000-038791/03.
 06-NOV-1998;
20-JAN-1999;
08-MAR-1999;
 Blaschuk OW,
 W09957149-A2
 Homo sapiens
 05-MAY-1999;
 05-MAY-1998;
 11-NOV-1999
 02-MAR-2000
 Synthetic
 AAY64225;
RESULT 15
AAY64225
```

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δ
 d
 The present invention describes cadherin modulating agents (Wh)

C comprising peptides which comprise a nonclassical cadherin cell adhesion

recognition (CAR) sequence. The MAs can be used for modulating

c nonclassical cadherin-mediated functions. They can be used for e.g.

inhibiting adhesion of nonclassical-cadherin expressing cells in a

mammal, enhancing delivery of a drug through the skin of a mammal,

c mammal, inhibiting metastasis of a cancer in a mammal, treating cancer in

angiogenesis in a mammal, inducing apoptosis in a nonclassical cadherin-

c angiogenesis in a mammal, enhancing delivery to the

cypressing cell, preventing or treating obesity in a mammal, stimulating

cc expressing call, preventing oct treating demyelinating neurological disease,

conclassical cadherin-expressing cells, inhibiting synaptic stability in

mammal, or preventing pregnancy in a mammal. They can also be used for

cor reducing scar tissue, or enhancing adhesion of foreign tissue in a

mammal. They can also be used for treating e.g. psoriasis, arthritis, age

cc products can also be used for treating e.g. psoriasis, arthritis, age

related macular degeneration, multiple sclerosis and diabetes. The

crelated macular degeneration, multiple sclerosis and diabetes, and

cc AAV66592 to AAV64672 represent specifically claimed peptides, and

cc AAV64573 to AAV64643 and AAZ33188 tepresent sequences used in

cc the exemplification of the present invention
 New cadherin modulating agents, used for modulating nonclassical cadherin -mediated functions for treating e.g. cancers, obesity, rheumatoid arthritis, multiple sclerosis, diabetes or a neurological disease.
 inhibition; cadherin-craracellular domain; cell adnesion; CAR; OB-cadherin; cadherin-5; cadherin-6; cadherin-7; cadherin-1; cadherin-1; cadherin-1; cadherin-1; cadherin-1; cadherin-1; cadherin-1; desherin; PB-cadherin; cadherin; cadherin; cadherin; protocadherin; desmoglein; desmocollin; calcium binding; cancer; tumour; obseity; rheumatoid arthritis; multiple sclerosis; diabetes; metastasis; neurological disease.
 nonclassical cadherin mediated cell adhesion; CAR;
 Cadherin-related neuronal receptor CAR sequence SEQ ID NO:637.
 Sequence 7 AA;
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56.2%; Score 18; DB 3; Length 7;

Query Match

0 Gaps · 0 Pred. No. 1.7e+06; 1; Mismatches 2; Indels Search completed: November 4, 2004, 01;18:12 Job time: 95.333 secs 57.1%; Best Local Similarity 57.1 Matches 4; Conservative 1 FTLTISS 7 FTIDSSS

Sequence Sequence Sequence Sequence Sequence Sequence Sequence

Perfect score:

Sednence:

OM protein

Run on:

Scoring table:

Searched:

Minimum DB Maximum DB

Database

Result No.

Sequence 16, Sequence 30, Sequence 19, Sequence 33, Sequence 6, A

Sequence 12, 1 Sequence 13, 1 Sequence 15, 1 Sequence 130,

Sequence 3

us-09-712-819d-1.open.rai

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Sequence 26, Application PC/TUS9102942
GENERAL INFORMATION:
APPLICANT: ROTHLEN:
APPLICANT: ADAIR, JOHN R
APPLICANT: ATHWAL, DILUEET S
TITLE OF INVENTION: HUMANIZED CDR-GRAFTED ICAM-1 ANTIBODY
NUMBER OF SEQUENCES:
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sterne, Kessler, Goldstein & Fox
 1 100.0%; Score 32; DB 5; Length 25; Similarity 100.0%; Pred. No. 3.4; 7; Conservative 0; Mismatches 0; Indels
 COUNTRY: USA

COUNTRY: USA

COUNTRY: USA

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MEDIUM TYPE: Floppy disk
COMPUTER: TEM PC Compatible
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COMPUTER: TEM PC COMPUTER:
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COMPUTER: 19910429
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US91/02942
FILING DATE: 19910429
CLASSIFICATION: A355
PRIOR APPLICATION NUMBER: GB 9009549.8
FILING DATE: 27-APR-1990
ATTORNEY/AGENT INFORMATION:
REFERENCE/DOCKET NUMBER: 30,353
REFERENCE/DOCKET NUMBER: 1011.0586600
TELEBEHONE: (202) 466-0800
TELEBEHONE: (202) 466-0800
TELEBERAX: (202) 466-0800
TELEBERAX: (202) 833-8716
INPORMATION PCR SEQ ID NO: 26:
SEQUENCE CHARACTERISTICS:
US-08-925-339-12
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US-09-269-921-130
US-08-20-921-130
US-08-783-853A-35
US-08-783-853A-35
US-08-783-59E-19
US-08-290-592E-19
US-08-290-592E-19
US-09-472-087-94
PCT-US95-10053-16
PCT-US95-10053-30
PCT-US96-09448-13
 ALUKESSEE: Sterne, Kessler, Goldstein & Fox STREET: 1225 Connecticut Ave. NW Suite 300 CITY: Washington STATE: D.C.
 US-08-466-368-6
 ALIGNMENTS
 25 amino acids
 protein
 AMINO ACID
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Matches 7; Conserv
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100.00
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1000.0
 100.0
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 100.0
 TOPOLOGY: lin
 PCT-US91-02942-26
 PCT-US91-02942-26
 LENGIH:
 Query Match
 RESULT 1
8
 Appli
 4, 2004, 00:42:19; Search time 16.6667 Seconds (without alignments) 27.854 Million cell updates/sec
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 GenCore version 5.1.6 (c) 1993 - 2004 Compugen Ltd.
 Total number of hits satisfying chosen parameters:
 US-08-554-840-15
US-08-925-339-10
 478139 segs, 66318000 residues
 SUMMARIES
 Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
 - protein search, using sw model
 Gapop 10.0 , Gapext 0.5
 Issued_Patents AA:*
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seq length: 200000000
 US-09-712-819D-1
32
1 PTLTISS 7
 Query
Match Length
 November
 1000.00
1000.00
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Gaps

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COMPUTER REALBABLE FORM:
MEDIUM TYPE: Floppy disk
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OMPRATING SYSTEM: PC-DOS/MS-DOS
OFFRAMARE: Patentin Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/569,147
FILING DATE: 25-March-1996
ATTORNEY/ABGNT INFORMATION:
MAMB: Truillo, Doreen Yatko
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: 35,719
REFERENCE/DOCKET NUMBER: 35,719
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION SEG-3439
INFORMATION FOR SEQ ID NO: 40:
SEQUENCE CHARACTERISTICS:
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"WUDT- amino acids
"WUDT- amino acids
 100.0%; Score 32; DB 3; Length 32; 100.0%; Pred. No. 4.4;
 Length 32;
 0; Indels
 TITLE COLLINGER OF SEQUENCES: 95
NUMBER OF SEQUENCES: 95
CORRESPONDENCES: 95
CORRESPONDENCE ADDRESS:
ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz & ADDRESSEE: No. 6180377#is, LLP
STREET: One Liberty Place - 46th Floor
CITY: Philadelphia STATE: PA
COUNTRY: U.S.A.
STATE: PA
 DB 2;
 0; Mismatches
 0; Mismatches
 100.0%; Score 32;
100.0%; Pred. No.
 RESULT 5
US-09-347-061-13
; Sequence 13, Application US/09347061
 Sequence 40, Application US/08569147 Patent No. 6180377
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CAI
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 32 amino acids
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Best Local Similarity 100.
Matches 7; Conservative
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 TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
 TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-470-139-13
 TYPE: amino acid
STRANDEDNESS: si
 linear
 15 Fririss 21
 GENERAL INFORMATION:
APPLICANT:
 1 FTLTISS 7
 1 FTLTISS 7
 TOPOLOGY:
 RESULT 4
US-08-569-147-40
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 Gaps
 Interleukin-5 specific recombinant antibodies
 ..
 Sequence 13, Application US/08470139
; Sequence 13, Application US/08470139
; Patent No. 599568
; GENERAL INFORMATION:
; APPLICAMY:
; TITLE OF INVENTION: Interleukin-5 specific recombinant and NUMBER OF SEQUENCES: 28
; COMPUTER READABLE PORM:
; COMPUTER: IBM PC compatible
; COMPUTER: IBM PC compatible
; COMPUTER: PatentIn Release #1.0, Version #1.30 (BPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/470,139
; FILING DATE: 06 UNE-1995
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: TRUJILLO, DOREEN YATKO
 Sequence 42, Application PC/TUS9102942
Sequence 42, Application:
APPLICANT: ROTHLEIN, ROBERT
APPLICANT: ADAIR, JOHN R
APPLICANT: ATHWAL, DILJEET S
TITLE OF INVENTION: HUMANIZED CDR-GRAFTED ICAM-1 ANTIBODY
NUMBER OF SEQUENCES: 102
CORRESPONDENCE ADDRESS:
ADDRESSER: Sterne, Kessler, Goldstein & Fox
STREET: 1225 Connecticut Ave. NW Suite 300
CITY: Mashington
 LUG.0%; Score 32; DB 5; Length 25; Best Local Similarity 100.0%; Pred. No. 3.4; Atches 7; Conservative 0; Mismatcher
 COUNTRY: WEALINGTON
STATE: D.C.
COUNTRY: USA
ZID: 20036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENTIN Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US91/02942
FILING DATE: 19910429
CLASSIFICATION: 435
 NAME: FOX, SAM L
REGISTRATION NUMBER: 30,353
REFERENCE/DOCKET NUMBER: 1011.0586600
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 466-0800
INFORMATION FOR SEQ ID NO: 42:
SEQUENCE CHARACTERISTICS:
 PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9009549.8
FILING DATE: 27-APR-1990
ATTORNEY/AGENT INPORMATION:
 : 25 amino acids
AMINO ACID
 MOLECULE TYPE: protein
 linear
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8 FTLTISS 14
 TOPOLOGY:
 PCT-US91-02942-42
 PCT-US91-02942-42
 US-08-470-139-13
 RESULT 3
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US-09-543-004-94
US-09-543-004-94
Sequence 94, Application US/09543004
Retent No. 6346249
GENERAL INFORMATION:
APPLICANT:
Carlos F. Barbas III, Christoph Rader, Gerd Ritter, Sydney Welt and APPLICANT: Lloyd J. 1d A33 ANTIGEN SPECIFIC IMMUNOCLOBULIN PRODUCTS AND USES THERE TILE REFERENCE:
UNREAT APPLICATION UNMER: US/09/543,004
CURRENT APPLICATION NUMBER: US/09/543,004
PRIOR APPLICATION NUMBER: 09/425,638
PRIOR FILING DATE: 1990-10-22
NUMBER OF SEQ ID NOS: 129
SEQ ID NO 94
SEQ ID NO 94
 US-05-543-004-92

US-09-543-004-92

Patent No. 6346249

GENERAL INFORMATION:
APPLICANT: LIJOYd J. Old
APPLICANT: LIJOYd J. Old
TILE REFERENCE:
CURRENT APPLICANT: LUD 5630.1

CURRENT APPLICANT: LUD 5630.1

CURRENT APPLICATION NUMBER: US/09/543,004

PRIOR FILING DATE: 09/425,638

PRIOR FILING DATE: 1999-10-22

NUMBER OF SEQ ID NOS: 129

LENGTH: 32
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 100.0%; Score 32; DB 3; Length 32; larity 100.0%; Pred. No. 4.4; Conservative 0; Mismatches 0; Indels
 Query Match 100.0%; Score 32; DB 3; Length 32; Best Local Similarity 100.0%; Pred. No. 4.4; Matches 7; Conservative 0; Mismatches 0; Indels
 100.0%; Score 32; DB 3; Length 32; 100.0%; Pred. No. 4.4;
 0; Indels
 0; Mismatches
 Query Match
Best Local Similarity 100...
7; Conservative
 TYPE: PRT
ORGANISM: Homo sapiens
 TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
 15 FTLTISS 21
 15 FTLTISS 21
 FTLTISS 21
 Query Match
Best Local Similarity
Matches 7; Conserv
 1 FTLTISS 7
 1 FTLTISS
 1 FTLTISS
; FEATURE:
US-09-425-638A-94
 US-09-543-004-92
 US-09-543-004-94
 RESULT 10
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 A33 ANTIGEN SPECIFIC IMMUNOGLOBULIN PRODUCTS AND USES THERED LUD 5630
 A33 ANTIGEN SPECIFIC IMMUNOGLOBULIN PRODUCTS AND USES THEREC
LUD 5630
 Sequence 201, Application US/09425638A
Sequence No. 6342587
GRNERAL INFORMATION:
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CURRENT APPLICATION NUMBER: US/09/425,638A
CURRENT FILING DATE:
1999-10-22
NUMBER: OF SEQ ID NOS:
129
LENGTH: 32
LENGTH: 32
 Sequence 34, Application US/09425638A

Sequence Application US/09425638A

Patent No. 6342587

GENERAL INFORMATION:

GAPLICANT:

CAPLICANT:

A33 ANTIGEN SPECIFIC IMMUNOGLOBULIN PRODUCTS AND USES THERE FILE REFERENCE:

CURRENT APLICATION NUMBER:

CURRENT FILING DATE:

NUMBER OF SEQ ID NOS:

NUMBER OF SEQ ID NOS:
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 GENERAL INFORMATION:
APPLICANT: Bodner, Mark
APPLICANT: Athwal, Diljeet Singh
APPLICANT: Entage,
TITLE OF INVENTION: Interleukin-5 Specific Recombinant Antibodies
FILE REFERENCE: CARP-0071
CURRENT APPLICATION NUMBER: US/09/347,061
CURRENT FILING DATE: 1999-07-02
NUMBER OF SEQ ID NOS: 28
SOFTWARE: Patentin version 3.0
LENGTH: 32
LENGTH: 32
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 100.0%; Score 32; DB 3; Length 32; 100.0%; Pred. No. 4.4;
 100.0%; Score 32; DB 3; Length 32; 100.0%; Pred. No. 4.4; ive 0; Mismatches 0; Indels
 0; Indels
 0; Mismatches
 TYPE: PRT
ORGANISM: Artificial Sequence
 NAME/KEY: misc feature; OTHER INFORMATION: Consensus
US-09-347-061-13
 Query Match
Best Local Similarity 100..
7; Conservative
 Query Match
Best Local Similarity 100.
Matches 7; Conservative
 TYPE: PRT
ORGANISM: Homo sapiens
 TYPE: PRT
ORGANISM: Homo sapiens
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 RESULT 6
US-09-425-638A-92
 US-09-425-638A-92
 -09-425-638A-94
 SEQ ID NO 94
LENGTH: 32
 FEATURE:
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Sequence 110, Application US/0956322C

Sequence 110, Application US/0956322C

Patent No. 6696620

GENERAL INFORMATION:

APPLICANT: BPICYTE PHARMACEUTICALS, INC.

APPLICANT: HIATY, ANDREW C.

APPLICANT: HIATY, ANDREW C.

TITLE OF INVENTION: IMMUNOGLOBULIN BINDING PROTEIN ARRAYS IN PLANT CELLS

FILE REFERENCE: 068904-095-02

FILE REFERENCE: 068904-05-02

PRIOR APPLICATION NUMBER: US/09/563,222C

PRIOR APPLICATION NUMBER: 09/563,222

PRIOR FILING DATE: 2000-05-02

PRIOR FILING DATE: 2000-05-02

PRIOR APPLICATION NUMBER: 09/563,222

PRIOR SEQ ID NOS: 182

SOFTWARE: PatentIn Ver. 2.1

FENCINE DATE: 2000-05-02

SEQ ID NO 110

SEQ ID NO 110
 GENERAL INFORMATION:
APPLICANT: BPICYTE PHRAMACEUTICALS, INC.
APPLICANT: HITT, ANDREW C.
APPLICANT: HITT, ANDREW C.
APPLICANT: HITT, ANDREW C.
TITLE OF INVENTION: IMMUNOGLOBULIN BINDING PROTEIN ARRAYS IN PLANT CELLS
FILE REFERENCE: 068904-0501
CURRENT APPLICATION NUMBER: US/09/563,222C
CURRENT FILING DATE: 2000-05-02
PRIOR APPLICATION NUMBER: PCT/US01/14349
PRIOR FILING DATE: 2000-05-02
PRIOR APPLICATION NUMBER: 09/563,222
PRIOR FILING DATE: 2000-05-02
NUMBER OF SEQ ID NOS: 182
SOFTWARE PECENTIN Ver. 2.1
SEQ ID NO 86
LENGTH: 32
 Sequence 11, Application US/09855271
Patent No. 6734286
GENERAL INFORMATION ark W
APPLICANT: Bodmer, Mark W
APPLICANT: Emtage, John Spencer
APPLICANT: Emtage, John Spencer
TITLE OF INVENTION: Interleukin-5 Specific Recombinant Antibodies
FILE REFERENCE: CARP-0088
 100.0%; Score 32; DB 4; Length 32; 100.0%; Pred. No. 4.4; o; Mismatches 0; Indels
 100.0%; Score 32; DB 4; Length 32;
100.0%; Pred. No. 4.4;
.ive 0; Mismatches 0; Indels
 Query Match
Best Local Similarity 100.
Matches 7; Conservative
 Query Match
Best Local Similarity 100.
Matches 7; Conservative
 TYPE: PRT
ORGANISM: Mus musculus
 ; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-563-222C-86
 15 FTLTISS 21
 15 FTLTISS 21
 1 FTLTISS 7
 1 FTLTISS 7
 US-09-563-222C-110
 US-09-563-222C-110
 RESULT 14
US-09-855-271-13
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US-09-647-468-129

| Sequence 129, Application US/09647468
| Patent No. 6677436
| Patent No. 6677436
| Patent No. 6677436
| Patent No. 6677436
| Patent No. 6677436
| Patent No. 6677436
| Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No. 1712.00 | Patent No.
 WS-09-63-22C-76

Sequence 76, Application US/0956322C

Fatent No. 6696620

GENERAL INFORMATION:
APPLICANT: BEICYTE PHARMACEUTICALS, INC.
APPLICANT: HEIN, MICH B.
TITLE OF INVENTION: IMMUNOGLOBULIN BINDING PROTEIN ARRAYS IN PLANT CELLS
FILE REFERENCE: 068904-0501
CURRENT FILING DATE: 2000-05-02
PRIOR APPLICATION NUMBER: PCT/US01/14349
PRIOR PLING DATE: 2000-05-02
PRIOR PILING DATE: 2000-05-02
PRIOR PILING DATE: 2000-05-02
PRIOR PILING DATE: 2000-05-02
NUMBER OF SEQ ID NOS: 182

SOFTWARE: Patentin Ver. 2.1

SEQ ID NO 76
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 PEATURE: OTHER INFORMATION: Description of Artificial Sequence: Amino acid sequence OTHER INFORMATION: of FR3 of versions "a" of humanized L chain V OTHER INFORMATION: region
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 100.0%; Score 32; DB 4; Length 32; 100.0%; Pred. No. 4.4;
 100.0%; Score 32; DB 4; Length 32; 100.0%; Pred. No. 4.4; ive 0; Mismatches 0; Indels
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 0; Mismatches
 ; Sequence 86, Application US/09563222C
 ORGANISM: Artificial Sequence
 Query Match
Best Local Similarity 100.
Matches 7; Conservative
 Query Match
Best Local Similarity 100.
Matches 7; Conservative
 ; ORGANISM: Homo sapiens
US-09-563-222C-76
 15 FTLTISS 21
 15 FTLTISS 21
 1 FTLTISS 7
 RESULT 12
US-09-563-222C-86
 US-09-647-468-129
 TYPE: PRT
 RESULT 11
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Gaps

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 APPLICANT: ADALR, JOHN R
APPLICANT: ADALR, JOHN R
APPLICANT: ATHARL, DILJEET S
TITLE OF INVENTION: HUMANIZED CDR-GRAFTED ICAM-1 ANTIBODY
NUMBER OF SEQUENCES: 102
CORRESPONDENCES: 102
ADDRESSEE: Sterne, Kessler, Goldstein & Fox
STREET: 1225 Connecticut Ave. NW Suite 300
CITY: Washington
STREE: D.C.
COUNTRY: USA
ZIP: 20036
 .
0
 Query Match
100.0%; Score 32; DB 4; Length 32;
Best Local Similarity 100.0%; Pred. No. 4.4;
Matches 7; Conservative 0; Mismatches 0; Indels
 100.0%; Score 32; DB 5; Length 50; 100.0%; Pred. No. 7.1; o; Mismatches 0; Indels
 CURRENT APPLICATION NUMBER: US/09/855,271
CURRENT FILING DATE: 2001-05-15
PRIOR APPLICATION NUMBER: 09/347,061
PRIOR FILING DATE: 1999-07-02
NUMBER OF SEQ ID NOS: 28
SOFTWARE: PatentIn version 3.1
SEQ ID NO 13
LENGTH: 32
 Sequence 8, Application PC/TUS9102942 GENERAL INFORMATION:
 TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
 ; OTHER INFORMATION: Consensus US-09-855-271-13
 Query Match
Best Local Similarity 100.
Matches 7; Conservative
 TOPOLOGY: linear

MOLECULE TYPE: peptide

PCT-US91-02942-8
 15 Fririss 21
 1 FTLTISS 7
 26 Fririss 32
 1 FTLTISS 7
 PCT-US91-02942-8
 RESULT 15
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Search completed: November 4, 2004, 00:54:51 Job time: 17.6667 secs
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4, 2004, 00:36:19; Search time 19 Seconds (without alignments) 35.448 Million cell updates/sec
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Copyright (c) 1993 - 2004 Compugen Ltd.
 Total number of hits satisfying chosen parameters:
 283416 seqs, 96216763 residues
 OM protein - protein search, using sw model
 BLOSUM62
Gapop 10.0 , Gapext 0.5
 US-09-712-819D-1
32
 1 FTLTISS 7
 November
 Title:
Perfect score:
 Scoring table:
 Sequence:
 Searched:
 Run on:
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length: 0 length: 2000000000 Minimum DB seq Maximum DB seq

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

PIR 79:\*
1: pir1:\*
2: pir2:\*
3: pir3:\* Database :

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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Query Match
Best Local Similarity 100.0%; Pred. No. 2.5;
Matches 7; Conservative 0; Mismatches 0; Indels

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| 91                 | 91          | 91        | 91  | 91                                      | 91                   | 92      | 8    | 92      | 92                 | 92                  | 92            | 92        | 92            | 92       | 92                                       |
| •                  | •           | •         | • • | •                                       | •                    |         | •    | ٠.      | • • •              |                     | •             | 32 100.0  |               | _        | _                                        |
| 30                 | 31          | 32        | 33  | 34                                      | 35                   | 36      | 37   | 38      | 39                 | 40                  | 41            | 42        | 43            | 44       | 45                                       |

## ALIGNMENTS

RESULT 1

283416

| JTOSZI  JTOSZI  Species: Hamo sapiens (man)  C. Species: Hamo sapiens (man)  C. Species: Hamo sapiens (man)  C. Species: Hamo sapiens (man)  C. Species: Hamo sapiens (man)  C. Species: Bamo sapiens (man)  C. Species: 12-0cd-1992 #sequence_ravision 23-0ct-1992 #text_change 09-May-1997  S. Accession: JTOSZI  A. Article: Clonal diversity in the B cell repertoire of patients with X-linked agammaglob  A. Article: Clonal diversity in the B cell repertoire of patients with X-linked agammaglob  A. Article: A. ANC  A. Article: A. ANC  A. Article: The construction of the B cell repertoire of patients with X-linked agammaglob  A. Article: A. ANC  A. Article: A. ANC  A. Article: The construction of the B cell repertoire of patients with X-linked agammaglob  A. Article: A. ANC  A. Article: A. ANC  A. Article: A. ANC  A. Article: A. ANC  A. Article: A. ANC  A. Article: A. ANC  A. Article: A. ANC  A. Article: A. ANC  A. Article: A. ANC  A. Article: A. ANC  A. Article: A. ANC  A. Article: A. ANC  A. Article: A. ANC  C. Species: Article: A. ANC  C. Species: Article: A. ANC  A. Article: A. Article: A. ANC  A. Article: A. Article: A. ANC  A. Article: A. Article: A. Anc  A. Article: A. Article: A. Anc  A. Article: A. Article: A. Anc  A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Article: A. Artic | C;Supertamniy: 1mmunoglobulin V region; immunoglobulin homology<br>C;Keywords: heterotetramer; 1mmunoglobulin |
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Syspecies: Mus musculus (house mouse)
(5,Species: Mus musculus (house mouse)
(5,Species: Mus musculus (house mouse)
(5,Accession: S24215
R.Shimizu, T.; Iwasato, T.; Yamagishi, H.
J. Exp. Med. 173, 1065-1072, 1991
A.Title: Deletions of immunoglobulin C(kappa) region characterized by the circular exciny. Reference number: S24214; MUD:91217618; PMID:1902500
A,Accession: S24215
A,Accession: S24215
A,Status: preliminary; translation not shown
A,Holecule type: DNA
A,Residues: 1-79 SMID.
 PHI048

Ig light chain V region (clone 165.49) - mouse (fragment)

C;Species: Mus musculus (house mouse)

C;Date: 30-Sep-1993 #text_change 15-Jun-1996

C;Accession: PH1048

R;Tillman, D.M.; Jou, N.T.; Hill, R.J.; Marion, T.N.

J. Exp. Med. 176, 761-779, 1992

A;Title: Both IgM and IgG anti-DNA antibodies are the products of clonally selective B

A;Reference number: PH0971; MUID:92381444; PMID:1512540
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 gy appa chain V region (patient 28) - human (fragment)
C;Species: Homo sapiens (man)
C;Species: 30-Apr.1998 #sequence_revision 08-May-1998 #text_change 21-Jan-2000
C;Accession: S78489; S34100
R;Wagner, S
B;Wagner, C
B;Wagner, S
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 Gaps
 A;Cross-references: EMBL:X58202; NID:g53718; PIDN:CAA41178.1; PID:g930195
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
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 A;Status: nucleic acid sequence not shown
A;Molecule type: mRNA
A;Residues: 1-81 <TIL>
A;Rescidues: 1-81 source: B cell, strain [NZB x NZW]F1
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: immunoglobulin
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Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 7; Conservative 0; Mismatches 0; Indels
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2;
 DB
 Mismatches
 100.0%; Score 32;
100.0%; Pred. No.
 0;
 S24215
Ig kappa chain - mouse (fragment)
 Query Match
Best Local Similarity 100.
Matches 7; Conservative
 56 FTLTISS 62
 7
 44 Fririss 50
 FTLTISS 68
 1 FILTISS 7
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 1 FTLTISS
 1 FTLTISS
 A; Accession: PH1048
 RESULT 8
 RESULT 7
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 Ig kappa chain V region (D44) - mouse

Ig kappa chain V region (D44) - mouse
C;Species: Mus musculus (house mouse)
C;Species: Mus musculus (house mouse)
C;Date: 03-Nov-1988 #sequence_revision 03-Aug-1992 #text_change 23-Jul-1999
C;Accession: D30502
R;Eilat, D.; Webster, D.M.; Rees, A.R.
A;Title: V region sequences of anti-DNA and anti-RNA autoantibodies from NZB/NZW F-1 mic
A;Reference number: A30502, MUID:88315787; PMID:2457627
A;Accession: D30502
A;Accession: D30502
A;Accession: preliminary
A;Accession: Preliminary
A;Molecule type: mRNA
A;Residues: 1-77 < EIL>
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 Ig kappa chain V region - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 24-Jul-1998 #sequence_revision 24-Jul-1998 #text_change 07-May-1999
C;Accession: 870443
R;Cuisinier, A.M.; Fumoux, F.; Fougereau, M.; Tonnelle, C.
Mol. Immunol. 29, 1363-1373, 1992
A;Tile: IgM kappa/lambda EBV human B cell clone: an early step of differentiation of 1A;Reference number: 870442; MUID:93024508; PMID:1383695
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 A,Cross-references: GB:M21908; NID:g197073; PIDN:AAA38908.1; PID:g197074 A;Note: the authors translated the codon CAG for residue 48 as Pro C;Superfamily: immunoglobulin V region; immunoglobulin homology C;Keywords: heterotetramer; immunoglobulin
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 C;Superfamily: immunoglobulin V region; immunoglobulin homology C;Keywords: heterotetramer; immunoglobulin
 2; Length 77;
 A;Status: not compared with conceptual translation A;Status: not compared with conceptual translation A;Nolecule type: mRNA A;Nolecule type: mRNA C;Superfamily: immunoglobulin V region; immunoglobulin homology
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100.0%; Pred. No. 2.7;
iive 0; Mismatches
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Best Local Similarity 100.
Matches 7; Conservative
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 40 FTLTISS 46
 1 FTLTISS 7
 1 FILTISS 7
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Ig kappa chain V region - human (fragment)

C,Species: Homo sapiens (man)

C,Species: Homo sapiens (man)

C,Date: 19-Feb-1994 #sequence_revision 10-Nov-1995 #text_change 21-Jan-2000

C,Accession: 516824

R,Blaison, G.; Kuntz, J.L.; Pasquali, J.L.

Bur J. Immunol. 21, 122-1227, 1991

A,Title: Molecular analysis of V(kappa) III variable regions of polyclonal rheumatoid fa A,Reference number: S16824

A,Accession: S16824

A,Status: preliminary; translation not shown

A,Molecule type: mRNA

A,Residues: 1-86 < BLA>

A,Residues: 1-86 < BLA>
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C;Date: 19-Feb-1994 #sequence_revision 10-Nov-1995 #text_change 21-Jan-2000
C;Accession: 516836
R;Blaison, G.; Kuntz, J.L.; Pasquali, J.L.
R;Blaison, G.; Kuntz, J.L.; Pasquali, J.L.
A;Title: Molecular analysis of V(kappa)III variable regions of polyclonal rheumatoid factore number: 516836
A;Accession: 516836
A;Accession: 516836
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 Ig Kappa chain V region - human (fragment)
Cispecies: Homo sapiens (man)
Cispecies: Homo sapiens (man)
Ciste: 19-Feb-1994 #sequence_revision 10-Nov-1995 #text_change 21-Jan-2000
Cistocession: S16837
Riblaison, G.; Kuntz, J.L.; Pasquali, J.L.
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 A;Cross-references: EMBL:X54822
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
F;7-81/Domain: immunoglobulin homology <IMM>
 A,Cross-references: EMBL:X54834
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
F;7-81/Domain: immunoglobulin homology <IMM>
 Length 86;
 Length 86;
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 DB 2;
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 DB 2;
 Score 32; DB 2;
Pred. No. 3.1;
0; Mismatches 0,
 100.0%; Score 32; DB 2
100.0%; Pred. No. 3.1;
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 100.0%; Score 32;
100.0%; Pred. No.
 A; Status: preliminary; translation not shown
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Matches 7; Conservative
 Query Match
Best Local Similarity 100.
Matches 7; Conservative
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 62 FTLTISS
 A; Molecule type: mRNA
A; Residues: 1-86 < BLA>
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A; Accession: $78489
A; Molecule type: DNA
A; Molecule type: DNA
A; Molecule type: DNA
A; Residues: 1-83 < WMG>
A; Cxoss-references: EMBL:X67184
A; Experimental source: patient 28
R; Wagner, S.D.; Luzzatto, L.
Eur. J. Immunol. 23, 391-397, 1993
A; Title: V-kappa gene segments rearranged in chronic lymphocytic leukemia are distribute
A; Reference number: $34076; MUID:93170387; PMID:8436174
A; Accession: $34400
A; Status: nucleic acid sequence not shown
A; Molecule type: DNA
A; Residues: 1-68, CV, 70-73, A, 75-83 < WAW>
C; Superfamily: immunoglobulin V region; immunoglobulin homology
C; Keywords: heterotetramer; immunoglobulin
F; 6-80/Domain: immunoglobulin homology < INWA>
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334099

19 Kappa chain V region - human

C;Species: Homo sapiens (man)

C;Date: 13-Jan-1995 #sequence_revision 13-Jan-1995 #text_change 09-Jul-2004

C;Date: 13-Jan-1995 #sequence_revision 13-Jan-1995 #text_change 09-Jul-2004

C;Date: 13-Jan-1995 #sequence_revision 13-Jan-1995 #text_change 09-Jul-2004

R;Wagner, S.D.; Luzzatto, L.

Eur. J. Immunol. 23, 391-397, 1993

A;Title: V,Kappa gene segments rearranged in chronic lymphocytic leukemia are distribute

A;Reference number: S34099

A;Accession: S34099

A;Accession: S34099

A;Accession: Preliminary

A;Accession: Preliminary

A;Residues: 1-84 cWAG>
 19 kappa chain V region - human (fragment)
C;Species: Homo sapiens (man)
C;Species: Homo sapiens (man)
C;Species: Homo sapiens (man)
C;Date: 19-Feb-1994 #sequence_revision 10-Nov-1995 #text_change 21-Jan-2000
C;Accession: S16834
R;Blaison, G.; Kuntz, J.L.; Pasquali, J.L.
R;Blaison, G.; Kuntz, J.L.; Pasquali, J.L.
A;Title: Immunol. 21, 1221-1227, 1991
A;Reference number: S16823; MUID:91243737; PMID:1903706
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 A;Cross-references: UNIPROF: Q9UL83; EMBL:X67183
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
F;5-79/Domain: immunoglobulin homology <IMM>
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A;Cross-tarences: BMBL:X54832
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
F;7-81/Domain: immunoglobulin homology <IMM>
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100.0%; Score 32; DE
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Length 86; Indels

100.0%; Score 32; DB 2; 100.0%; Pred. No. 3.1; 0; Mismatches

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F;7-81/Domain: immunoglobulin homology <IMM>
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Best Local Similarity 100.
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 FTLTISS 68
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 Slockson to the sapient of the sapient of the sapient of the sapient of the sapient of the sapient (species: Homo sapients (man)
C. Species: Homo sapients (man)
C. Date: 19-Feb-1994 #sequence_revision 10-Nov-1995 #text_change 21-Jan-2000
C. Accession: S16830
C. A. Runtz, J. 1221-1227, 1991
A. Title: Nolecular analysis of V(kappa) II variable regions of polyclonal rheumatoid fact of the second number: S16823; MuID: 91243737; PMID: 1903706
A. Retence number: S16823; MuID: 91243737; PMID: 1903706
A. Recession: S16830
A. Residues: 1-86 < BLA
A. Molecule type: mRNA
A. Molecule type: mRNA
A. Molecule type: mRNA
C. Superfamily: immunoglobulin V region; immunoglobulin homology
C. Superfamily: immunoglobulin homology < IMM>
F:7-81/Domain: immunoglobulin homology < IMM>
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C;Species: Homo sapiens (man)
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C;Date: 19-Feb-1994 #sequence_revision 10-Nov-1995 #text_change 21-Jan-2000
C;Accession: 61683; 816838
R;Blaison, G.; Kuntz, J.L.; Pasquali, J.L.
R;Elaison, G.; Kuntz, J.L.; Pasquali, J.L.
A;Title: Molecular analysis of V(kappa) III variable regions of polyclonal rheumatoid factoring number: 816823; MUID:91243737; PMID:1903706
A;Reference number: 816823; MUID:91243737; PMID:1903706
 Eur. J. Immunol. 21, 1221-1227, 1991

A; Title: Molecular analysis of V(kappa) III variable regions of polyclonal rheumatoid fad A; Title: Molecular analysis of V(kappa) III variable regions of polyclonal rheumatoid fad A; Reference number: $16837 MUD:91243737; PMID:1903706

A; Status: preliminary; translation not shown A; Residues: preliminary; translation not shown A; Residues: 1-86 < SLA.>
A; Cross-references: EMBL:X54835

A; Cross-references: EMBL:X54835

C; Superferamily: immunoglobulin v region; immunoglobulin homology
C; Keywords: heterotetramer; immunoglobulin homology < IPMA>
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 A)Status: translation not shown
A)Molecule type: mRNA
A)Molecule type: mRNA
A)Residues: 1-86 callw
A)Cross-references: EMBL:X54836
A)Experimental source: clone slkv14
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
 100.0%; Score 32; DB 2; Length 86; 100.0%; Pred. No. 3.1;
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100.0%; Pred. No. 3.1;
iive 0; Mismatches
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A, Accession: $16838
 A;Status: translation not shown
A;Molecule type: mRNA
A;Residues: 1-86 <BLA>
A;Cross-references: BMBL:X54831
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 1 FTLTISS 7
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SEQUENCE FROM N.A.
STRAIN=B6.Sle1; TISSUE=Spleen;
Liang Z., Xie C., Chen C., Kreska D., Hsu K., Zhou J.X., Mohan C.;
"Antimuclear autoantibodies from B6.Sle1 mice.";
Submitted (SEP-2003) to the EMBL/GenBank/DDBJ databases.
EMBL; AY436835; AAR10995.1; -.
 Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Butheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
NCBI_TaxID=10090;
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 NCBI_TaxID=203907;
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 27vr58 candidatus
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 Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
 Description
 Q96sa9 P
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Q9erz9 n
P01598 P
P01590 P
P01611 P
P01650 n
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P01652 n
P01652 n
Q901673 n
 P01624
Q9u185
P01632
P01625
P04433
 Q9u183
P01612
 1825181
 GenCore version 5.1.6 (c) 1993 - 2004 Compugen Ltd.
 Total number of hits satisfying chosen parameters:
 1825181 seqs, 575374646 residues
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 AAR11030
AAR11008
KV1D HUMAN
Q96SA9
Q9ERZ9
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Maximum Match 100%
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 KV1F HUMAN
KV1G HUMAN
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KVSR_MOUSE
KVSS_MOUSE
KVST_MOUSE
 KV3 I HUMAN
KV3 J HUMAN
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 KV1T HUMAN
KV3F HUMAN
 HUMAN
 HUMAN
 MOUSE
 HUMAN
 HUMAN
 KV1W HUMAN
 4AR10995
 BLOSUM62
Gapop 10.0 , Gapext 0.5
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Q9UL83
 07VR58
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 KV1A
 KV1H
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 Scoring table:
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 Minimum DB
Maximum DB
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 Searched:
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 Result
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Bac03964 homo sapi
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 sapien
 O6gmx9 homo sapien
Q7z3y4 homo sapien
Aah29444 homo sapi
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homo sapien
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SEQUENCE FROM N.A.

MEDLINE=22784745; PubMed=12886019;

Gil R., Silva F.J., Zientz E., Delmotte F., Gonzalez-Candelas F.,

Latorre A., Rausell C., Kamerbeek J., Gadau J., Hoelldobler B.,

van Ham R.C.H.J., Gross R., Moya A.;

"The genome sequence of Blochmannia floridanus: comparative analysis

of reduced genomes.";

Proc. Natl. Acad. Sci. U.S.A. 100:9388-9393(2003).
 Gaps
 homod
 Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
Enterobacteriaceae; ant endosymbionts; Candidatus Blochmannia.
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 P06313 P06314 P006314 P01634 P
 Q6gmx8
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(TrEMBLrel. 25, Last sequence update)
(TrEMBLrel. 25, Last annotation update)
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02-MAR-2004 (TrEMBLrel. 27, Created)
02-MAR-2004 (TrEMBLrel. 27, Last sequence update)
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Mus musculus (Mouse).
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 81 AA.
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KV4E HUMAN
KV4C HUMAN
KV5E MOUSE
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AAH29444
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Name=lpp; OrderedLocusNames=Bfl364;
 QGGMX8
QGGMX9
 PRT;
 PRT;
 Candidatus Blochmannia floridanus.
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RESULT 3

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21-JUL-1986 (Rel. 01, Created)
21-JUL-1986 (Rel. 01, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
15 kappa chain V-I region CAR.
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 107 AA.
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 MEDLINE=75075135; PubMed=4216454;
 antibody V region genes.";
J. Immunol. 16:12020-2031(1998).
EMBL, U96396, AAB66785.1; -.
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 107 AA;
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 NCBI_TaxID=9606;
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 NCBI_TaxID=9606;
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STRAIN=B6.Sle1; TISSUE=Spleen;
Liang Z., Xie C., Chen C., Kreska D., Hsu K., Zhou J.X., Mohan C.;
"Antinuclear autoantibodies from B6.Sle1 mice.";
Submitted (SEP-2003) to the EMBL/GenBank/DDBJ databases.
EMBL; AY436848; AAR11008.1; -.
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STRAIN=B6.Sle1; TISSUE=Spleen;
Liang Z., Xie C., Chen C., Kreska D., Hsu K., Zhou J.X., Mohan C.;
Liang Z., Xie C., Chen C., Kreska D., Hsu K., Zhou J.X., Mohan C.;
"Antinuclear autoantibodies from B6.Sle1 mice.";
Submitted (SEP-2003) to the EMBL/GenBank/DDBJ databases.

EMBL; AY436870; AAR11030.1; -.
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Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
NCBI_TaxID=10090;
 Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus
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 100.0%; Score 32; DB 2; Length 101; 100.0%; Pred. No. 13; 0; Indels tive 0; Mismatches 0; Indels
 100.0%; Score 32; DB 2; Length 93; 100.0%; Pred. No. 12;
 100.0%; Score 32; DB 2; Length 81; 100.0%; Pred. No. 10; tive 0; Mismatches 0; Indels
 0: Indels
 101 101
101 AA; 11166 MW; 593AC4478AD607BB CRC64;
 93 93
93 AA; 10180 MW; CAES3B27EABC45E7 CRC64;
1 1
81 81
81 AA, 8929 MW, D2326578184F801C CRC64;
 02-WAR-2004 (TrEMBLrel. 27, Created)
02-MAR-2004 (TrEMBLrel. 27, Last sequence update)
02-MAR-2004 (TrEMBLrel. 27, Last annotation update)
 AAR11030;
02-MAR-2004 (TrEMBLrel. 27, Created)
02-MAR-2004 (TrEMBLrel. 27, Last sequence update)
02-MAR-2004 (TrEMBLrel. 27, Last annotation update)
ANA immunoglobulin kappa light chain (Fragment)
Mus musculus (Mouse).
 ANA immunoglobulin kappa light chain (Fragment)
 101 AA.
 93 AA
 0; Mismatches
 PRT;
 PRT;
 Query Match
Best Local Similarity 100.,
 Query Match
Best Local Similarity luv...
7; Conservative
 Conservative
 PRELIMINARY;
 PRELIMINARY;
 (Mouse)
 FTLTISS 73
 56
 7
 1 FILTISS 7
 Best Local Similarity
 1 FILTISS 7
 NCBI_TaxID=10090;
 1 FTLTISS
 50 FTLTISS
 Mus musculus
 7;
 NON TER
NON TER
SEQUENCE
 AAR11008
AAR11008;
 NON TER
SEQUENCE
NON TER
NON TER
SEQUENCE
 AAR11030
 Query Match
 NON TER
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AAR11008 RESULT

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Gaps PIR; A01864; KIHUPA.
HSSP; P80362; IWTL.
GO, GO:0005575; C:extracellular; NAS.
GO; GO:0005575; C:extracellular; NAS.
GO; GO:0006555; P:amnigen binding; NAS.
GO; GO:0006955; P:amnigen binding; NAS.
GO; GO:0006955; P:amnigen binding; NAS.
InterPro; IPR007110; Ig-like.
InterPro; IPR003596; Ig-v.
Pfam; PR004406; IGv.
PRAMT; SM004406; IGv.
Direct protein; sequening; Glycoprotein; Immunoglobulin V region.
CARBOHYD
28 28 N-linked (GlcNAc...). -i- MISCELLANEOUS: This chain was isolated from a myeloma protein. Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi, Mammalia, Butheria, Primates, Catarrhini, Hominidae, Homo Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi, Mammalia, Butheria, Primates, Catarrhini, Hominidae, Homo. 01-DEC-2001 (TrEMBLrel. 19, Created) 01-DEC-2001 (TrEMBLrel. 19, Last sequence update) 01-DAR-2004 (TrEMBLrel. 26, Last annotation update) Anti-streptococcal/anti-myosin immunoglobulin kappa light chain MEDLINE-98375893; PubMed-9712075; MEDLINE-98375893; PubMed-9712075; Adderson B.E., Shikhman A.R., Ward K.E., Cunningham M.W.; Molecular analysis of polyreactive monoclonal antibodies from "Molecular analysis of polyreactive monoclonal antibodies from rheumatic carditis: human anti-N-acetylglucosamine/anti-myosin Eur. J. Biochem. 49:377-391(1974). -!- MISCELLANEOUS: The C region of this chain has the INV (1,2) · 0 Milstein C.P., Deverson E.V.; "Primary structure of kappa light chain from a human myeloma Score 32; DB 1; Length 107; Pred. No. 14; Indels 11703 MW; E1BF0DF9844C3346 CRC64; ; 0

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Thu Nov
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STANDARD;
 Homo sapiens (Human)
 24
35
50
50
89
23
108
AA;
 71 FTLTISS 77
 7
 NCBI_TaxID=9606;
 1 FTLTISS
 [2]
DISULFIDE BOND.
 HUMAN
 DISULFID
NON TER
SEQUENCE
 SEQUENCE
 _KV1F_HUM
P01598;
 DOMAIN
 DOMAIN
 KV1F_HUMAN
 KV1G_HUMAN
 RESULT 9
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 0;
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 SEQUENCE FROM N.A. Chen D. J. Wang Z.L., Han H., Su C.Z.; Chen P., Deng J.B., Wang Z.L., Han H., Su C.Z.; Cloning and sequencing of the light chain fragment of variable region genes of an anti-hTNP-a monoclonal antibody."; Xibao Yu Fenzi Mianyixue Zazhi 12:21-26(1996).
 Gaps
 Gaps
 Mus musculus (Mouse).
Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus
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 SECURNCE FROM N.A. Chen P., Deng J.B., Wang Z.L., Han H., Yao L.B., Su C.Z., "Construction and sequencing of the single-chain antibody gene human TNF-alpha specific monoclonal antibody.";
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 01-MAR-2001 (TrEMBLrel. 16, Created)
01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
01-0CT-2003 (TrEMBLrel. 25, Last annotation update)
Anti human TNF-alpha light chain variable region (Fragment).
 Query Match 100.0%; Score 32; DB 2; Length 107; Best Local Similarity 100.0%; Pred. No. 14; Matches 7; Conservative 0; Mismatches 0; Indels
 100.0%; Score 32; DB 2; Length 107; 100.0%; Pred. No. 14; 0; Mismatches 0; Indels
 Su C.Z.;
 Indels
 4BB43E9C5B577F16 CRC64;
 107 AA
 PRT;
PIR; PHO867; PHO867.
PIR; S31977; S316840.
PIR; S34083; S34083.
PIR; S34086; S34086.
HSSP; PO1607; IBWW.
INCEPPRO; IPRO0710; IG-like.
 11520 MW;
 PHOSTIE; PS50835; IG LIKE; 1.
PROSITE; PS50835; IG LIKE; 1.
 PRELIMINARY:
 Conservative
 107 107
107 AA; 11
 Query Match
Best Local Similarity
7; Conserve
 71 FILTISS 77
 7
 7
 NCBI_TaxID=10090;
 1 FTLTISS
 1 FTLTISS
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NON TER
SEQUENCE
 Q9ERZ9
 OGENERAL SEPTIMENT
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74 FTLTISS 80

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 MEDLINE=71064023; PubMed=5489770;
Gottlieb P.D., Cunningham B.A., Rutishauser U., Edelman G.M.;
"The covalent structure of a human gamma G-immunoglobulin. VI. Amino
acid sequence of the light chain.";
Biochemistry 9:3155-316(1(170)).
 Gaps
 Homo Sapiens (Human).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
 ..
0
 Complementarity-determining-1.
 Score 32; DB 1; Length 108;
Pred. No. 14;
0; Mismatches 0; Indels
 Complementarity-determining-2.
 Complementarity-determining-3.
 PIR, A30562; KIHUBU.

HSSP; PO1607; IMIW.

HSSP; PO1607; IBWW.

GO; GO:0005576; C:extracellular; NAS.

GO; GO:000555; F:antigen binding; NAS.

GO; GO:000555; P:antimune response; NAS.

InterPro; IPR007110; Ig-like.

InterPro; IPR007110; Ig-like.

InterPro; IPR007110; Ig-like.

InterPro; IPR007110; Ig-like.

InterPro; IPR007110; Ig-like.

InterPro; IPR007110; Ig-like.

InterPro; IPR007110; Ig-like.

InterPro; IPR007110; Ig-like.

InterPro; IPR007110; Ig-like.

InterPro; IPR007110; Ig-like.

InterPro; IPR007110; Ig-like.

InterPro; IPR007110; Ig-like.

InterPro; IPR007110; Ig-like.

InterPro; IPR007110; Ig-like.

InterPro; IPR007110; Ig-like.

InterPro; IPR007110; Ig-like.

INTERPRO; IPR007110; Ig-like.

INTERPRO; IPR007110; Ig-like.

INTERPRO; IPR007110; Ig-like.

INTERPRO; IPR007110; Ig-like.

INTERPRO; IPR007110; Ig-like.

INTERPRO; IPR007110; Ig-like.

INTERPRO; IPR007110; Ig-like.

INTERPRO; IPR007110; Ig-like.

INTERPRO; IPR007110; Ig-like.

INTERPRO; IPR007110; Ig-like.

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INTERPRO; IPR007110; Ig-like.

INTERPRO; IPR007110; Ig-like.

INTERPRO; IPR007110; Ig-like.

INTERPRO; IPR007110; Ig-like.

INTERPRO; IPR007110; Ig-like.

INTERPRO; IPR007110; Ig-like.

INTERPRO; IPR007110; Ig-like.

INTERPRO; IPR007110; Ig-like.

INTERPRO; IPR007110; Ig-like.

INTERPRO; IPR007110; Ig-like.

INTERPRO; IPR007110; Ig-like.

INTERPRO; IPR007110; Ig-like.

INTERPRO; IPR007110; IG-like.

INTERPRO; IPR007110; IG-like.

INTERPRO; IPR007110; IG-like.

INTERPRO; IPR007110; IG-like.

INTERPRO; IPR007110; IG-like.

INTERPRO; IPR007110; IG-like.

INTERPRO; IRR00710; IRR00710; IG-like.

INTERPRO; IRR00710; IRR007
 11788 MW; 9CD294F2F4D88823 CRC64;
 Last sequence update)
Last annotation update)
 | KVIG HUMAN | STANDARD; PRT; 108 AA. P01599; 21-JUL-1986 (Rel. 01, Created) | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created | Created
 108 AA
PRT;
 MEDLINE=71064027; PubMed=4923144;
 21-JUL-1986 (Rel. 01, Created)
21-JUL-1986 (Rel. 01, Last seq
05-JUL-2004 (Rel. 44, Last ann
Ig kappa chain V-I region EU.
 100.0%;
 Query Match
Best Local Similarity 100....
7, Conservative
 34
49
56
88
97
 NCBI_TaxID=9606;
 SEQUENCE
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Gaps

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MEDLINE=81092279; PubWed=6778806; Milschmann N.; Arazin H., Yang C., Krusche J.U., Hilschmann N.; Arazin H., Yang C., Krusche J.U., Hilschmann N.; Arazin H., Yang C., Krusche J.U., Hilschmann N.; Arazin H., Yang C., Krusche J.U., High-pressure liquid chromatography. The primary structure of a monoclonal L-chain of k-type, subgroup I (Bence-Jones Protein Wes)."; Hoppe-Seyler's Z. Physiol. Chem. 361:1591-1598 (1980).

I. MISCELLANEOUS: This is a Bence-Jones protein. Brit. A01877; KIHUWS.

C. I. MISCELLANEOUS: This is a Bence-Jones protein.

R. PRSP; P80362; JWTL.

GO; GO:0005576; C:extracellular; NAS.

GO; GO:0005955; P:immune response; NAS.

R. RICHERO: IPR007110; Ig-like.

R. InterPro; IPR00710; Ig-like.
 Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
 Score 32; DB 1; Length 108; Pred, No. 14;
 Complementarity-determining-1.
 Complementarity-determining-2.
 Framework-3.
Complementarity-determining-3.
 Complementarity-determining-2.
 Complementarity-determining-1.
 Complementarity-determining-3
 Length 108;
 Indels
 Indels
 11608 MW; 782B14A649A60E45 CRC64;
 08D3A6160D8D0618 CRC64;
 .
 .
 Score 32; DB 1;
Pred. No. 14;
 21-JUL-1986 (Rel. 01, Created)
21-JUL-1986 (Rel. 01, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
 Pred. No. 14;
0; Mismatches
 108 AA
 Framework-4.
By similarity
 By similarity.
 100.0%; Prec. ...
 Framework-2
 Framework-3.
 Framework-1
 Framework-1.
 Framework-2.
 Framework-4
 PRT;
 100.08;
 11671 MW;
 Ig kappa chain V-I region Wes Homo sapiens (Human).
 100.0%;
 100.08;
 Conservative
 Local Similarity 100
 STANDARD;
 mmunoglobulin V region.
 23
34
34
449
107
107
108
Immunoglobulin V region
 Query Match
Best Local Similarity
7; Conserve
 71 FTLTISS 77
 71 FTLTISS 77
 108 AA;
 1 FTLTISS 7
 108 AA;
 1 FTLTISS 7
 NCBI_TaxID=9606;
 KV1S HUMAN
 DOMAIN
DISULFID
 SEQUENCE
 DISULFID
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 Query Match
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 HODDE-SEYler's Z. Physiol. Chem. 351:1231-1295(1970).
-!- MISCELLANEOUS: The C region of this chain has the INV (3) marker.
-!- MISCELLANEOUS: This is a Bence-Jones protein.
 Gaps
 Laure C.J., Watanabe S., Hilschmann N.;
"The primary structure of a monoclonal IgM-immunoglobulin (macroglobulin Gal.), I. The amino acid sequence of the L-chain of kappa-type, subgroup I.";
Hoppe-Seyler's Z. Physiol. Chem. 354:1503-1504(1973).
-i- MISCELLANEOUS: The C region of this chain has the INV (3) marker.
-i- MISCELLANEOUS: This chain was isolated from a Waldenstrom's
 Watanabe S., Hilschmann N.; "The primary structure of a monoclonal kappa-type immunoglobulin L-chain of subgroup I (Bence-Jones Protein Hau): subdivision within
 Eukaryoča; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
NCBI_TaxID=9606;
 0
 100.0%; Score 32; DB 1; Length 108; 100.0%; Pred. No. 14;
 Framework-1.
Complementarity-determining-1.
 Complementarity-determining-3.
 Complementarity-determining-2
 Indels
 Clad3CB0F600FF73 CRC64;
 Immunoglobulin V region.
 ;
 21-JUL-1986 (Rel. 01, Created)
21-JUL-1986 (Rel. 01, Last sequence update)
01-OCT-2004 (Rel. 45, Last annotation update)
RAPPA chain V-I region Hau.
HOMO Sapiens (Human).
 108 AA.
 By similarity.
 0; Mismatches
 Framework-3
 Framework-2
 Framework-4
 PIR; A01868; KHHUHU.
PDB; 1F6L; X-ray; L=1-108.
GO; GO:0005576; C:extracellular; NAS.
GO; GO:0003823; F:antigen binding; NAS.
GO; GO:0006955; P:immune response; NAS.
InterPro; IPR007110; IG-like.
InterPro; IPR003596; Ig_v.
 GO: GO:0005576; C:extracellular; NAS.
GO: GO:0003823; F:antigen binding; NAS.
GO: GO:0006955; P:imune response; NAS.
InterPro; IPR007110; Ig-like.
InterPro; IPR003596; Ig_v.
 PRT;
 MEDLINE=71032830; PubMed=4097974;
 MEDLINE=75059122; PubMed=4215718;
 108
11814 MW;
 Pfam; PF00047; ig; 1. __
SMART; SM00406; IGv; 1.
PROSITE; PS50835; IG_LIKE; 1.
 Direct protein sequencing;
DOMAIN 1 23
 Local Similarity 100.
nes 7; Conservative
 STANDARD;
 23
34
44
94
97
97
 PIR; A01867; K1HUGL.
HSSP; P01607; 1BWW.
 FTLTISS 77
 108 AA;
 FILTISS 7
 macroglobulin.
 KV1H HUMAN
 [1]
SEQUENCE.
 DOMAIN
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SEQUENCE
 Query Match
 P01600;
 DOMAIN
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 RESULT 10
KV1H_HUMAN
 Matches
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Gaps

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Pfam; PF00047; ig; 1.
SMART; SM00406; IGv; 1.
PROSITE; PS50835; IG_LIKE;
InterPro; IPR003596; Ig_v.
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 7; Conservative
 34
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88
 PIR; A92811; KVMS06.
 FILTISS 77
 AA:
 7
 binding proteins.";
 Local Similarity
 Query Match
Best Local Similarity
 NCBI_TaxID=10090;
 1 FTLTISS
 108
 21-JUL-1986
21-JUL-1986
 MOUSE
 DOMAIN
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 SEQUENCE
 Query Match

 SEOUENCE
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DOMAIN
 P01652;
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 RESULT 14
KV5S_MOUSE
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 8
 Vrana M., Rudikoff S., Detter M.;

The structural basis of a hapten-inhibitable kappa-chain idiotype.";

U. Immunol. 122:1905-1910(1979).

U. Immunol. 122:1905-1910(1979).

U. Immunol. 122:1905-1910(1979).

U. Immunol. 122:1906-1910(1979).

U. Immunol. 122:1906-1910(1979).

U. Immunol. 122:1906-1910(1979).

P. M. SARCELANDOUS: This chain was isolated from myeloma proteins that bind beta(2-1)-fructofuranosyl moieties (inulin).

P. R. A92808; KWASS.

InterPro; IPRO03786.

InterPro; IPRO03786.

InterPro; IPRO03786.

InterPro; IPRO03786.

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InterPro; IPRO03786.

InterPro; IPRO03786.

InterPro;
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 MEDLINE=79195288; PubMed=109517;
Vrana M., Rudikoff S., Potter M.;
The structural basis of a hapten-inhibitable kappa-chain idiotype.";
T. Immunol. 122:1905-1910(1979).

J. Immusol. 122:1905-1910(1979).

-! MISCELLAMBOUS: This chain was isolated from myeloma proteins that bind beta(2-1)-fructofuranosyl moieties (inulin).
 Gaps
 Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Butheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus.
 Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Butheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
NCBI_TaxID=10090;
 ö
 Complementarity-determining-1.
 Score 32; DB 1; Length 108; Pred. No. 14;
 Complementarity-determining-2.
 Complementarity-determining-3
 0; Indels
 FAE4DA36076F2AFE CRC64;
 (Rel. 01, Created)
(Rel. 01, Last sequence update)
(Rel. 44, Last annotation update)
 P01651;
21-JUL-1986 (Rel. 01, Created)
21-JUL-1986 (Rel. 01, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
Ig kappa chain V-V region EPC 109.
 108 AA.
 108 AA.
 By similarity.
 Mismatches
 Framework-2.
 Framework-3.
 Framework
 PRT;
 PRT;
 Ig kappa chain V-V region UPC 61.
 MEDLINE=79195288; PubMed=109517;
 0;
 11809 MW;
 100.0%;
 PIR, B92808; KYMS09.
HSSP; P01607; IBWW.
InterPro; IPR007110; Ig-like.
 STANDARD;
 Conservative
 STANDARD;
 Mus musculus (Mouse).
 Mus musculus (Mouse)
 FTLTISS 77
 1 FTLTISS 7
 108 AA;
 Local Similarity
nes 7; Conserv
 NCBI_TaxID=10090;
 _KV5Q_MOUSE
P01650;
21-JUL-1986 (
21-JUL-1986 (
05-JUL-2004 (
 KVSR MOUSE
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 Query Match
 DOMAIN
 DOMAIN
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 DOMAIN
 RESULT 13
KV5R_MOUSE
 Matches
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0
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 J. Immunol. 128:302-307(1982).
-!- MISCELLANEOUS: This chain was isolated from myeloma proteins that bind beta(2-1)-fructofuranosyl moieties (inulin).
 Gaps
 Gaps
 Mus musculus (Mouse).
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Butheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 Johnson M., Slankard J., Paul L., Hood L.;
"The complete V domain amino acid sequences of two myeloma inulin-
 0;
 ·.
 Framework-1.
Complementarity-determining-1.
 Complementarity-determining-2. Framework-3. Complementarity-determining-3.
 Score 32; DB 1; Length 108;
Pred. No. 14;
 Score 32; DB 1; Length 108; Pred. No. 14; 0; Mismatches 0; Indels
 Complementarity-determining-1.
 Complementarity-determining-2.
 Complementarity-determining-3
 0; Indels
 Indels
 11876 MW; 35C116BD60F79310 CRC64;
 8DE4DD31076F2AFB CRC64;
Immunoglobulin V region.
 Direct protein sequencing; Immunoglobulin V region.
 21-JUL-1986 (Rel. 01, Last sequence update) 05-JUL-2004 (Rel. 44, Last annotation update) 19 kappa chain V-V region J606.
 108 AA
 By similarity.
 Mismatches
 By similarity.
 Framework-2.
 Framework-4
 Framework-3.
 Framework-
 MEDLINE=82099361; PubMed=6798111;
 ô
 HSSP, P01607, 1BWW.
InterPro; IPR007110; Ig-like.
InterPro; IPR003596, Ig-v.
Pfam; PP00047; ig; 1.
SMART; SM00406; Igv; 1.
PROSITE; PS50835; IG_LIKE; 1.
 (Rel. 01, Created)
 100.0%;
 11810 MW;
 100.0%;
Direct protein sequencing;
DOMAIN 1 23
 7; Conservative
 STANDARD;
 71 FILTISS 77
 g
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us-09-712-819d-1.open.rup

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0
 RN SEQUENCE.

RN SIGNINE-82099361; PubMed=6798111;

RA Johnson N., Slankard J., Paul L., Hood L.,

RT Johnson N., Slankard J., Paul L., Hood L.,

RT Johnson N., Slankard J., Paul L., Hood L.,

RT Johnson N., Slankard J., Paul L., Hood L.,

RT Johnson N., Slankard J., Paul L., Hood L.,

Limiding Droteins."

C. Immunol. 128:302-307(1982).

Limiding Droteins."

C. HISCELLANEOUS: This chain was isolated from myeloma proteins that bind deta(2-1)-fructofuranosyl moieties (inulin).

C. PIR, B92811; KYWASB.

RSP, P01607; 1BWW.

RSP, P01607; 1BWW.

RSP, P01607; 1BWW.

RSP, P01607; 1BWW.

RAMERY; SWOO406; 1Gy.

R PROSITE; PS50835; IG_LIKE; 1.

R PROSITE; PS50835; IG_LIKE; 1.

RY DOWAIN 24 34 Framework-1.

FT DOWAIN 35 97 Complementarity-determining-1.

FT DOWAIN 98 Remework-3.

FT DOWAIN 98 108 Framework-3.

FT DOWAIN 98 108 Framework-3.

FT DOWAIN 98 108 Framework-3.

FT DOWAIN 98 108 Framework-4.

FT DOWAIN 98 108 Framework-4.

FT DOWAIN 98 108 Framework-7.

FT DOWAIN 98 108 Framework-7.

FT DOWAIN 98 108 Framework-7.

FT DOWAIN 98 108 Framework-1.

FT NON TER 108 AA; 11850 MW; CSC145DC376F30CD CRC64;
 Gaps
Tuber Mouse Standard; PRT; 108 AA.

Polofs Mouse Standard; PRT; 108 AA.

21-JUL-1986 (Rel. 01, Last sequence update)
21-JUL-1986 (Rel. 44, Last annotation update)
105-JUL-2004 (Rel. 44, Last annotation update)
11 kappa chain V-V region W3082.

Mus musculus (Mouse).

Mus musculus (Mouse).

Musmalia; Butheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

1011 TaxID=10090;
 ô
 Ouery Match
Best Local Similarity 100.0%; Pred. No. 14;
Matches 7; Conservative 0; Mismatches 0; Indels
 1 FTLTISS 7
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Search completed: November 4, 2004, 00:53:55 Job time : 104 secs

71 FTLTISS 77

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November 4, 2004, 00:33:03; Search time 60 Seconds (without alignments) 41.852 Million cell updates/sec
 2002273
GenCore version 5.1.6 (c) 1993 - 2004 Compugen Ltd.
 Total number of hits satisfying chosen parameters:
 2002273 seqs, 358729299 residues
 OM protein - protein search, using sw model
 BLOSUM62
Gapop 10.0 , Gapext 0.5
 Minimum DB seq length: 0
Maximum DB seq length: 200000000
 US-09-712-819D-1
 32
1 FTLTISS 7
 Copyright
 Scoring table:
 Perfect score:
 Sequence:
 Searched:
 Run on:
 Title:
```

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries Database :

A Geneseq 23Sep04:\*

1: geneseq11980s:\*

2: geneseq11990s:\*

4: geneseq2000s:\*

5: geneseq2001s:\*

6: geneseq203s:\*

7: geneseq2003as:\* geneseqp2004s:\* Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

|           | ion                        | Ada67499 Humanised | -        | 0        |          | N        | 3 Human  |          | Aab98286 Anti-A33 | Aab98288 Anti-A33 | Aab97666 A33 antiq | Aab97668 A33 antig | Abg98287 Human ant | Human    | Human    | 3 Human  | Abp62673 Human imm | 6 Human  | Aau70408 Human lig | Aau70436 Mouse lig |          | Abol0698 Deimmunis | Abr44642 Murine J5 | ဥ        | 2 Anti-G | Н        |
|-----------|----------------------------|--------------------|----------|----------|----------|----------|----------|----------|-------------------|-------------------|--------------------|--------------------|--------------------|----------|----------|----------|--------------------|----------|--------------------|--------------------|----------|--------------------|--------------------|----------|----------|----------|
| SUMMARIES | П                          | ADG67499           | ADG67501 | ADG67500 | ADG67502 | AAE38112 | AAR87043 | AAY52745 | AAB98286          | AAB98288          | AAB97666           | AAB97668           | ABG98287           | AAE19672 | ABP62658 | ABP62688 | ABP62673           | AAU70396 | AAU70408           | AAU70436           | AA017650 | ABO10698           | ABR44642           | AAE38099 | AB033922 | AB033921 |
|           | DB                         | 5                  | Ŋ        | Ŋ        | ហ        | v        | N        | N        | 4                 | 4                 | 4                  | 4                  | Ŋ                  | Ŋ        | ហ        | Ŋ        | Ŋ                  | 'n       | 'n                 | ហ                  | വ        | b                  | 9                  | 9        | 7        | 7        |
|           | %<br>Query<br>Match Length | 13                 | 13       | 13       | 13       | 19       | 32       | 32       | 32                | 32                | 32                 | 32                 | 32                 | 32       | 32       | 32       | 32                 | 32       | 32                 | 32                 | 32       | 32                 | 32                 | 32       | 32       | 32       |
| ol        | Query<br>Match             | 8                  | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0             | 100.0             | 100.0              | 100.0              | 00                 | 8        | 100.0    | 100.0    | 100.0              | 100.0    | 00                 |                    | 100.0    |                    | 100.0              | 100.0    | 100.0    | 100.0    |
|           | Score                      | m                  | 32       | 32       | 32       | 32       | 32       | 32       | 32                | 32                | 32                 | 32                 | 32                 | 32       | 32       | 32       | 32                 | 32       | 32                 | 32                 | 32       | 32                 | 32                 | 32       | 32       | 32       |
|           | Result<br>No.              | -                  | 7        | ო        | 4        | Ω        | G        | 7        | ∞                 | σ                 | 10                 | 11                 | 12                 | 13       | 14       | 15       | 16                 | 17       | 18                 | D<br>D             | 20       | 21                 | 22                 | 23       | 24       | 25       |

| Abo33924 Anti-Gbt- |    | _           | Adh17983 Human mod | Abw01925 Human rhu | Abq98296 Antibody | Abg98294 Human ant | Abg98288 Human ant |              |            | Human      | Human      | Aar62921 Human cyt | Amino      | Aar62923 Human cyt | Aaw80981 Variable | Abo04843 Human epi | Adl35149 CEA4-8A a | Adl35148 Humanised | Abol0701 Deimmunis |
|--------------------|----|-------------|--------------------|--------------------|-------------------|--------------------|--------------------|--------------|------------|------------|------------|--------------------|------------|--------------------|-------------------|--------------------|--------------------|--------------------|--------------------|
| 7 ABO33924         | 60 | 8 ADH17975  | 8 ADH17983         | 7 ABW01925         | : 5 ABG98296      | : 5 ABG98294       | : 5 ABG98288       | : 5 ABG98290 | 5 ABG30482 | 7 ABG75305 | 8 ABM79517 | 2 AAR62921         | 2 AAW62805 | 5 2 AAR62923       | 2 AAW80981        | 6 ABO04843         | 8 ADL35149         | 8 ADL35148         | 6 ABO10701         |
| 32 100.0 32        | 0  | 32 100.0 32 | 32 100.0 32        | 100.0              | 100.0             | 100.0              |                    |              |            | 100.0      | 100.0      |                    | 100.0      | 100.0              | 100.0             | 100.0              | 100.0              | 32 100.0 79        | 32 100.0 80        |
| 26                 | 27 | 28          | 29                 | 30                 | 31                | 32                 | 33                 | 34           | 35         | 36         | 37         | 38                 | 39         | 40                 | 41                | 42                 | 43                 | 44                 | 45                 |

## ALIGNMENTS

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human; mouse; T-cell epitope; major histocompatibility complex; MHC; immunogenicity; MHC class II; antibody.
 Identifying potential T-cell epitope peptides within the amino acid sequence of a biological molecule, useful for preparing a biological molecule with reduced immunogenicity, comprises determining peptide binding to MHC molecules.
 Humanised anti-Tac antibody MHC class II binding peptide #61.
 Williams S, Hamilton A;
 ADG67499 standard; peptide; 13 AA.
 08-MAR-2001; 2001EP-00105777.
15-MAR-2001; 2001EP-00106536.
15-MAR-2001; 2001EP-00106899.
20-MAR-2001; 2001EP-00106899.
27-MAR-2001; 2001EP-00107012.
27-MAR-2001; 2001EP-0010720.
25-APR-2001; 2001EP-00110220.
19-0CT-2001; 2001EP-00113228.
19-OCT-2001; 2001EP-00134965.
 Jones T,
 18-FEB-2002; 2002WO-EP001688,
 2001EP-00103954.
 (first entry)
 (MERE) MERCK PATENT GMBH
 Carter G,
 WPI; 2002-750424/81.
 WO200269232-A2.
 19-FEB-2001;
08-MAR-2001;
15-MAR-2001;
 Homo sapiens
 11-MAR-2004
 06-SEP-2002,
 ADG67499;
 Carr FJ,
RESULT 1
ADG67499
```

The invention relates to a novel method for identifying one or more potential T-cell epitope peptides within the amino acid sequence of

Example 20; Page 60; 85pp; English.

for preparing a polypeptide, a protein, a fusion protein, an antibody or their fragments with reduced immunogenicity. The potential T-cell epitope peptide within the amino acid sequence of a parent immunogenically non-modified biological molecule identified is useful for preparing a biological molecule with reduced immunogenicity and having a retained desired biological activity, where the T-cell epitope is a lamer peptide. The present sequence is used in the exemplification of the invention.

Sequence 13 AA;

8888888888

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0
 histocompatibility complex (MMCC) molecules using in vitro or in silicotechniques or biological assays. The method of the invention is useful techniques or biological assays. The method of the invention is useful to preparing a polypeptide, a protein, a fusion protein, an antibody or their fragments with reduced immunogenicity. The potential T-cell epitope peptide within the amino acid sequence of a parent immunogenically non-modified biological molecule identified is useful for preparing a biological molecule with reduced immunogenicity and having a retained desired biological activity, where the T-cell epitope is a 13mer peptide. The present sequence is used in the exemplification of the invention.
biological molecule by determining the binding of the peptides to major
 Gaps
 Identifying potential T-cell epitope peptides within the amino acid sequence of a biological molecule, useful for preparing a biological molecule with reduced immunogenicity, comprises determining peptide binding to MHC molecules.
 human; mouse; T-cell epitope; major histocompatibility complex; MHC; immunogenicity; MHC class II; antibody.
 .
 Humanised anti-Tac antibody MHC class II binding peptide #63.
 100.0%; Score 32; DB 5; Length 13; 100.0%; Pred. No. 3.3;
 Indels
 Ä;
 Hamilton
 .
 Williams S,
 0; Mismatches
 Example 20; Page 60; 85pp; English.
 ADG67501 standard; peptide; 13 AA.
 20-MAR-2001; 2001EP-00107012.
27-MAR-2001; 2001EP-00107568.
25-ARR-2001; 2001EP-00110220.
39-ARR-2001; 2001EP-00113228.
19-CCT-2001; 2001EP-00124965.
12-NOV-2001; 2001EP-00126859.
 Jones T,
 2001EP-00103954.
2001EP-00105777.
2001EP-00106536.
2001EP-00106538.
 18-FEB-2002; 2002WO-EP001688
 (first entry)
 (MERE) MERCK PATENT GMBH.
 7; Conservative
 Carter G,
 WPI; 2002-750424/81.
 |||||||
FTLTISS 13
 _
 Local Similarity
 1 FTLTISS
 Sequence 13 AA;
 WO200269232-A2
 15-MAR-2001;
15-MAR-2001;
20-MAR-2001;
 19-FEB-2001;
08-MAR-2001;
 Homo sapiens
 11-MAR-2004
 06-SEP-2002
 Carr FJ,
 Query Match
 human;
 Matches
 RESULT
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The invention relates to a novel method for identifying one or more potential T-cell epitope peptides within the amino acid sequence of a biological molecule by determining the binding of the peptides to major histocompatibility complex (MHC) molecules using in vitro or in silico techniques or biological assays. The method of the invention is useful

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 The invention relates to a novel method for identifying one or more potential T-cell epitope peptides within the amino acid sequence of a blological molecule by determining the binding of the peptides to major histocompatibility complex (WHC) molecules using in vitro or in silico techniques or biological assays. The method of the invention is useful for preparing a polypeptide, a protein, a fusion protein, an antibody or their fragments with reduced immunogenicity. The potential T-cell epitope peptide within the amino acid sequence of a parent immunogenically non-
 Gaps
 human; mouse; T-cell epitope; major histocompatibility complex; MHC; immunogenicity; MHC class II; antibody.
 Identifying potential T-cell epitope peptides within the amino acid sequence of a biological molecule, useful for preparing a biological molecule with reduced immunogenicity, comprises determining peptide
 .;
0
 Humanised anti-Tac antibody MHC class II binding peptide #62.
 0; Indels
 Hamilton A;
 ..
2
 DB 5
 Williams S,
 Mismatches
 Score 32;
Pred. No. 3
 Example 20; Page 60; 85pp; English.
 Æ.
 ..
 ADG67500 standard; peptide; 13
 100.0%;
100.0%;
 Jones T,
 2001EP-00106538.
2001EP-00106899.
 2001EP-00107512.
2001EP-00107568.
 30-MAY-2001; 2001EP-00113228.
19-OCT-2001; 2001EP-00124965.
12-NOV-2001; 2001EP-00126859.
 18-FEB-2002; 2002WO-EP001688.
 2001EP-00105777.
2001EP-00106536.
 2001EP-00110220.
 (MERE) MERCK PATENT GMBH
Query Match
Best Local Similarity 100.
 binding to MHC molecules.
 Carter G,
 WPI; 2002-750424/81.
 <u>r</u>
 σ
 1 FTLTISS
 FTLTISS
 WO200269232-A2.
 20-MAR-2001; 2
20-MAR-2001; 2
27-MAR-2001; 2
 08-MAR-2001;
15-MAR-2001;
15-MAR-2001;
 Homo sapiens.
 25-APR-2001;
30-MAY-2001;
 19-FEB-2001;
 11-MAR-2004
 06-SEP-2002
 ADG67500;
 Carr FJ,
 RESULT 3
 ADG67500
 à
 g
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The present sequence is used in the exemplification of the invention
 FTLTISS
 FTLTISS
 1 FTLTISS
 WO2003057168-A2
 Sequence 13 AA;
 Sequence 19 AA;
 adenocarcinoma.
 Homo sapiens,
 06-NOV-2003
 17-JUL-2003
 Query Match
Best Local S
Matches 7
 Ħ
 AAE38112;
 rН
 Ditzel
 RESULT 6
AAR87043
 RESULT 5
 AAE38112
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 The invention relates to a novel method for identifying one or more potential T-cell epitope peptides within the amino acid sequence of a biological molecule by determining the binding of the peptides to major histocompatibility complex (MRC) molecules using in vitro or in silico techniques or biological assays. The method of the invention is useful for preparing a polypeptide, a protein, a fusion protein, an antibody or their fragments with reduced immunogenicity. The potential T-cell epitope peptide within the amino acid sequence of a parent immunogenically non-modified biological molecule identified is useful for preparing a biological molecule ammunogenicity and having a retained desired biological activity, where the T-cell epitope is a 13mer peptide.
modified biological molecule identified is useful for preparing a blological molecule with reduced immunogenicity and having a retained desired biological activity, where the T-cell epitope is a 13mer peptide. The present sequence is used in the exemplification of the invention.
 Gaps
 Identifying potential T-cell epitope peptides within the amino acid sequence of a biological molecule, useful for preparing a biological molecule with reduced immunogenicity, comprises determining peptide
 human; mouse; T-cell epitope; major histocompatibility complex; MHC; immunogenicity; MHC class II; antibody.
 .,
 Humanised anti-Tac antibody MHC class II binding peptide #64.
 5; Length 13;
 0; Indels
 Hamilton A;
 DB
 Mismatches
 Williams S,
 Score 32;
Pred. No.
 Example 20; Page 60; 85pp; English.
 Ā.
 0;
 ADG67502 standard; peptide; 13
 100.0%;
 Jones T,
 2001EP-00103954.
2001EP-00105777.
2001EP-00106536.
 15-WAR-2001; 2001EP-00106538
20-WAR-2001; 2001EP-00106899,
20-WAR-2001; 2001EP-00107012,
27-WAR-2001; 2001EP-00107568,
25-APR-2001; 2001EP-00110220.
 2001EP-00113228
2001EP-00124965
 2002WO-EP001688
 2001EP-00126859
 (first entry)
 (MERE) MERCK PATENT GMBH.
 binding to MHC molecules.
 7; Conservative
 FTLTISS 10
 Carter G,
 WPI; 2002-750424/81.
 Ouery Match
Best Local Similarity
Matches 7; Conserv
 FTLTISS 7
 AA;
 WO200269232-A2.
 Homo sapiens
 18-FEB-2002;
 19-FEB-2001;
 08-MAR-2001;
 15-MAR-2001;
 30-MAY-2001;
 19-OCT-2001;
 Sequence 13
 11-MAR-2004
 06-SEP-2002
 Н
 ADG67502;
 Carr FJ,
 ADG67502
ID ADG6
 RESULT
 88868688
8866666
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 The invention provides a cancer-associated epitope comprising two separate polypeptides, a cytokeratin 8 polypeptide and a cytokeratin 18 polypeptide. Vaccine composition of the invention is useful for treating or preventing colon adenocarcinoma, ovarian adenocarcinoma, renal adenocarcinoma, mammary adenocarcinoma, lung adenocarcinoma, pancreatic adenocarcinoma ar non-seminomal testis carcinoma. The invention is also useful for preparing a medicament for treating or preventing cancer in a mammal. The present sequence is human COU-1 cancer-associated epitope antibody VL (light chain variable region) FR (framework region) peptide
 Human, cancer-associated epitope, cytokeratin K8, cytokeratin K18, VL, adenocarcinoma, therapy, cancer, antibody, light chain variable region;
 Novel isolated cancer-associated epitope comprising two separate polypeptides, a cytokeratin 8 polypeptide and a cytokeratin 18 polypeptide, useful as component of vaccine for preventing or treating
 Gaps
 Gaps
 .
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 .;
0
 13;
 100.0%; Score 32; DB 6; Length 19; 100.0%; Pred. No. 5;
 Indels
 Indels
 Length
 ;
0
 ;
0
 .,
Score 32; DB E
Pred. No. 3.3;
 Mismatches
 ; Pred. No. 5;
0; Mismatches
 Human COU-1 antibody VL FR3 peptide #4.
 AAE38112 standard; peptide; 19 AA.
 Claim 15; Page 37; 155pp; English.
 ..
100.0%;
 03-JAN-2003; 2003WO-US000297
 03-JAN-2002; 2002US-0345208P
 (first entry)
 (SCRI) SCRIPPS RES INST.
 Conservative
 Conservative
 Jensenius JC;
 framework region; FR
 Query Match
Best Local Similarity
7; Conserve
 WPI; 2003-598315/56.
 -
 Similarity
 FILTISS
```

allergy; asthma

25-JUN-1996

AAR87043;

Homo sapiens.

WO9535375-A1

28-DEC-1995

16-JUN-1995; 17-JUN-1994;

Emtage JS,

```
The present invention describes chimeric antibody (Ab) heavy (H) chains containing the variable region of the H chain of a mouse monoclonal Ab recognising human tissue factor (hrf) and the constant region of the H chain of a human Ab. The variable region is one of six specified sequences (which are the H chain variable regions from mouse monoclonal Ab's ATR-2,3,4,5,7 or 8). Also described are chimeric Ab light (L) chains containing the variable region of the L chain of a mouse monoclonal Ab recognising human tissue factor (hrf) and the constant region of the L chain of a mouse monoclonal Ab requences (which are the L chain variable regions from mouse monoclonal Ab's ATR-2,3,4,5,7 or 8). The chimeric Ab's can be used for the treatment and prevention of thrombotic disease, especially of disseminated introduced mouse monoclonal and prevention of the mouse monoclonal antibody but greatly reduced immunogenicity. AAZ33001 to AAZ33091 and Y527007 represent
 antibody recognizing human tissue factor, used for treatment of
 Human, rabbit, humanised, A33 antigen, anti-A33 antigen antibody, immunoglobulin, complementarity determining region, CDR, cancer, cytostatic, anticancer, colon cancer, stomach cancer.
 ..
 sequences used in the exemplification of the present invention
 DB 2; Length 32;
8.9;
 0; Indels
 Anti-A33 antigen immunoglobulin VL FR3 SEQ ID NO:92.
 0; Mismatches
 Score 32;
Pred. No.
 (LUDW-) LUDWIG INST CANCER RES.
(SLOK) SLOAN KETTERING INST CANCER RES.
(SCRI) SCRIPPS RES INST.
 disseminated intravascular coagulation.
 Claim 17; Page 270; 291pp; Japanese.
 AAB98286 standard; peptide; 32 AA.
 100.0%;
 ä
 99WO-JP001768.
 98JP-00091850.
 20-OCT-2000; 2000WO-US029289.
 22-OCT-1999; 99US-00425638.
04-APR-2000; 2000US-00543004.
 (first entry)
 Query Match
Best Local Similarity 100..
 SEIYAKU
 Adachi H,
 21
 WPI; 1999-620204/53
 7
 1 FTLTISS
 15 Fririss
 Sequence 32 AA;
 WO200130393-A2
 (CHUS) CHUGAI
 Homo sapiens.
 02-APR-1999;
 03-APR-1998;
 20-AUG-2001
 03-MAY-2001.
 Humanised
 AAB98286;
 Sato K,
 RESULT 8
 AAB98286
셤
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 ö
 Framework regions (AAR87041-44) of human group I (gpl) germ line antibody light chain showed homology to corresponding regions (AAR87045-48, respectively) of the rat anti-human interleukin-5 monoclonal antibody 39D10 light chain (see AAR87040). This homology was utilised in the prodn. of a humanised 39D10 U. (AAR87057) in which rat 39D10 UL complementarity determining regions were grafted into the human gpl
 Humanised antibody; interleukin-5; IL-5; recombinant antibody; antibody engineering; monoclonal antibody; MAD; 39D10; CDR; complementarity determining region; light chain; framework; eosinophilia;
 Human tissue factor; TF; humanised; antibody; mouse monoclonal antibody; ATR-2; ATR-3; ATR-4; ATR-7; ATR-8; thrombotic disease; DIC; disseminated intravascular coagulation; immunogenicity; chimeric.
 Anti-human IL-5 recombinant antibody - useful for preventing or reducing eosinophilia and for treating certain allergic diseases, esp. asthma.
 Gaps
 ;
0
 100.0%; Score 32; DB 2; Length 32; llarity 100.0%; Pred. No. 8.9; Conservative 0; Mismatches 0; Indels
 Humanised ATR-5 L chain V region FR3 for a.
 Human group I light chain framework 3.
 (CLLT) CELLTECH THERAPEUTICS LTD.
 AAY52745 standard; peptide; 32 AA.
AAR87043 standard; peptide; 32 AA.
 Example 3; Fig 3; 69pp; English.
 94GB-00012230
 95WO-GB001411
 (first entry)
 (first entry)
 Bodmer MW,
 WPI; 1996-058412/06.
```

21

15

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RESULT 7 AAY52745 Homo sapiens

Synthetic

26-JAN-2000

AAY52745;

WO9951743-A1

14-OCT-1999

7 FTLTISS FTLTISS

Local Similarity es 7; Conserv

Best Loca Matches

Query Match

Sequence 32 AA;

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Gaps

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.;
0
 The present invention describes a method for treating cancers that express the A33 antigen. The method comprises administering an anticancer agent (1) conjugated to an immunoglobulin product (II) that binds specifically to A33 and contains one or more of 13 specified complementarity determining regions (CDRs), given in AAB98262 to AAB98274 (1) has cytostatic activity. The method can be used for treating colon and stomach cancers. (II), or the mucleic acid encoding it, can be used directly, in unconjugated form, for immunotherapy of associated with A33 expression. AAH22218 to AAH22254 and AAB98230 to AAB99321 represent sequences used in the exemplification of the present
 Treating cancers, particularly of stomach and colon, that express A33 antigen by administering conjugate of anticancer agent with specific immunoglobulin product.
 Gaps
 Treating cancers, particularly of stomach and colon, that express A33 antigen by administering conjugate of anticancer agent with specific
 Human; rabbit; humanised; A33 antigen; anti-A33 antigen antibody; immunoglobulin; complementarity determining region; CDR; cancer; cytostatic; anticancer; colon cancer; stomach cancer.
 .;
0
 100.0%; Score 32; DB 4; Length 32; 100.0%; Pred. No. 8.9; ive 0; Mismatches 0; Indels
 Anti-A33 antigen immunoglobulin VL FR3 SEQ ID NO:94.
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 Welt S,
 Welt S,
 (LUDW-) LUDWIG INST CANCER RES.
(SLOK) SLOAN KETTERING INST CANCER RES.
(SCRI) SCRIPPS RES INST.
 AAB98288 standard; peptide; 32 AA.
 Claim 16; Page 40; 85pp; English.
 Claim 16; Page 40; 85pp; English.
 Ritter G,
 Ritter G,
 20-OCT-2000; 2000WO-US029289.
 99US-00425638
 04-APR-2000; 2000US-00543004
 (first entry)
 Query Match
Best Local Similarity 100.
Matches 7, Conservative
 antigen by administerin
immunoglobulin product.
 Barbas CF, Rader C,
Barbas CF, Rader C,
 WPI; 2001-328613/34
 WPI; 2001-328613/34.
 FILIISS 21
 1 FTLTISS 7
 Sequence 32 AA;
 WO200130393-A2.
 Homo sapiens
 22-OCT-1999;
 20-AUG-2001
 03-MAY-2001
 invention
 15
 RESULT 9
AAB96288
ID AAB9
XX
AAC AAB9
XX
AAC AAB9
XX
DT 20-1
XX
DT 20-1
XX
DT 00-1
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DT 00-1
XX
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The present invention describes a method for treating cancers that express the A33 antiqen. The method comprises administering an anticancer agent (1) conjugated to an immunoglobulin product (II) that binds specifically to A33 and contains one or more of 13 specified complementarity determining regions (CDRs), given in AAB98262 to AAB9827. (1) has cytostatic activity. The method can be used for treating colon and stomach cancers. (II), or the mucleic acid encoding it, can be used directly, in unconjugated form, for immunotherapy of cancer, and, when labeled, for detection or diagnosis of diseases associated with A33 expression. AAH22218 to AAH22254 and AAB98330 to AAB98321 represent sequences used in the exemplification of the present
 The present invention describes a method for preparing a humanised rabbit antibody that specifically immunoreacts with a particular antigen. The method comprises expressing a library of antibodies comprising one or more complementarity determining region (CDR) from the variable domain sequences that specifically immunoreact with the antigen grafted into framework regions from humans, and selecting the antibodies that react with the antigen. The method is useful for humanising non-human mammalian antibodies, which can be used for the treatment of a variety of diseases. The present sequence represents an A33 antigen binding immunoglobulin product VLFR3 peptide which is given in an example from the present
 Preparing humanized rabbit antibodies that specifically immunoreact with a particular antigen using display technology for expressing libraries of antibody domains and fine tuning variable domain regions.
 Chimeric antibody; humanised; humanisation; mammalian antibody; antigen; immunoreact; anti A33 antigen antibody; immunoglobulin.
 A33 antigen binding immunoglobulin product VLFR3 peptide SEQ ID NO:92.
 Gaps
 .,
 100.0%; Score 32; DB 4; Length 32; 100.0%; Pred. No. 8.9; .ive 0; Mismatches 0; Indels
 AAB97666 standard; peptide; 32 AA.
 Example 9; Page 39; 62pp; English
 04-APR-2000; 2000US-00543004.
 20-OCT-2000; 2000WO-US029026
 99US-00425638
 (first entry)
 (SCRI) SCRIPPS RES INST.
 7; Conservative
 Rader C;
 WPI; 2001-328657/34.
 FTLTISS 21
 ~
 Best Local Similarity
Matches 7; Conserv
 Sequence 32 AA;
 WO200131065-A1.
 22-OCT-1999;
 Homo sapiens
 08-AUG-2001
 03-MAY-2001
 Sequence 32
 Barbas CF,
 invention
 invention
 н
 AAB97666;
 15
 Query Match
 AAB97666
 RESULT
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AA;

Antibody; variable region; light chain; heavy chain; VH; VL; gp39; CD40; T-cell activation; B-cell differentiation; framework region; cellular immune response; gene therapy; graft rejection; human; FR; autoimmune disease; rheumatoid arthritis; multiple sclerosis; diabetes; asthma; multiple sclerosis, allergy; diabetes mellitus; systemic lupus erythematosus; graft-versus-host disease.

Human antibody 012/V3b germline kappa chain variable region FR3/FR4 #1.

(first entry)

08-JAN-2003

ABG98287;

VH; VL; gp39; CD40;

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 The present invention describes a method for preparing a humanised rabbit antibody that specifically immunoreacts with a particular antigen. The method comprises expressing a library of antibodies comprising one or more complementarity determining region (CDR) from the variable domain sequences that specifically immunoreact with the antigen grafted into framework regions from humans, and selecting the antigen grafted into with the antigen. The method is useful for humanising non-human mammalian antibodies, which can be used for the treatment of a variety of diseases.
 Preparing humanized rabbit antibodies that specifically immunoreact with a particular antigen using display technology for expressing libraries of antibody domains and fine tuning variable domain regions.
 Chimeric antibody; humanised; humanisation; mammalian antibody; antigen; immunoreact; anti A33 antigen antibody; immunoglobulin.
 A33 antigen binding immunoglobulin product VLFR3 peptide SEQ ID NO:94.
 The present sequence represents an A33 antigen binding immunoglobulin product VLFR3 peptide which is given in an example from the present
 Gaps
 ;
0
 100.0%; Score 32; DB 4; Length 32; 100.0%; Pred. No. 8.9;
 DB 4; Length 32
 0; Indels
100.0%; Score 32; DB 4
100.0%; Pred. No. 8.9;
ive 0; Mismatches
 Example 9; Page 39; 62pp; English.
 AAB97668 standard; peptide; 32 AA.
 22-OCT-1999; 99US-00425638.
04-APR-2000; 2000US-00543004.
 20-OCT-2000; 2000WO-US029026.
 (first entry)
 (SCRI) SCRIPPS RES INST.
 7; Conservative
 Barbas CF, Rader C;
 WPI; 2001-328657/34.
 |||||||
15 FTLTISS 21
 1 FTLTISS 7
 Query Match
Best Local Similarity
 Sequence 32 AA;
 WO200131065-A1.
 08-AUG-2001
 Homo sapiens.
 03-MAY-2001.
 invention
 Query Match
 AAB97668;
 Matches
 RESULT 11
AAB97668
```

New antibodies binding to an epitope on gp39, useful for preventing graft rejection, or for treating autoimmune diseases (e.g. diabetes, asthma or multiple sclerosis), and non-autoimmune diseases (e.g. graft-versus-host

Kloetzer WS;

Rastetter WH,

Hanna N,

Pan LZ,

Anderson DR,

WPI; 2002-188261/24.

disease)

(IDEC-) IDEC PHARM CORP.

06-JUN-2001; 2001WO-US018098. 06-JUN-2000; 2000US-0209584P.

WO200194586-A2. Homo sapiens,

13-DEC-2001

```
The invention relates to an antibody which binds to an epitope on gp39, is new, where the epitope is distinct from the epitope bound by IDEC-131, and the antibody has a non-agonistic effect on T-cell activation and inhibits gp39/CD40 interaction. Also included are: (1) an improved method of treating a disease by modulating gp39 expression or inhibiting the gp39/CD40 interaction comprising administering an antibody specific for gp39/CD40 interaction, and is non-agonistic of T-cell activation; (3) and antibody which antagonises B-cell differentiation and antibody production, and is non-agonistic of T-cell activation; (3) a DNA sequence which encodes an antibody defined above; (4) an expression vector, which contains a DNA sequence of (3); (5) a method of suppressing thunoral and/or cellural immune responses against cells or vectors administered during cell or gene therapy comprising further administering prior, during or after gene therapy, one prior defined above; and (6) an improved method of treatment which involves the transplantation of cells, tissues or organs of the same or different species into a subject, where the improvement comprises administering an antibody defined above prior, during or after ransplantation, to suppress immune ceptores elicited by the transplanted cell, tissue or organ against the responses elicited by the transplanted cell, tissue or organ against the responses elicited by the transplanted cell, tissue or organ against the response elicited by the transplanted cell, tissue or organ, or to suppress immune cresponse mellitus, or systemic lupus erythematosus, as well as non-traing autoimmune diseases, e.g., rhewardstoid arthritis, multiple sclerosis, allergic conditions, categiven in the specification). The antibodies continually are specifications and conditions are given in the specification). The antibodies are allered and any other continual and are allered and any other continual and are allered and and any other continual and any other continual and any other continual and any
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 cellular immune responses against viral vectors. The present sequence is a framework region (FR) fragment of a human anti-gp39 antibody used to determine which amino acids should be humanised in a mouse anti-gp39
 Gaps
 0;
 100.0%; Score 32; DB 5; Length 32; larity 100.0%; Pred. No. 8.9; Conservative 0; Mismatches 0; Indels
 Disclosure; Page 46; 130pp; English.
 Local Similarity
 Sequence 32 AA;
 Query Match
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Indels

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Local Similarity tes 7; Conserv

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ð 엄 ABG98287 standard; peptide; 32 AA.

RESULT 12 ABG98287

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The invention relates to an antibody molecule having specificity for human tumour necrosis factor-alpha (TNFalpha) comprising a heavy or light chain. The antibody or the compound comprising the antibody is useful for treating or manufacturing a medicament for treating a pathology mediated is season which can be treated by the antibody include sepais, congestive heart failure, septic or endotoxic shock, cachaxia, adult respiratory heart failure, septic or endotoxic shock, cachaxia, adult respiratory distress syndrome, acquired immunodeficiency syndrome (AIDS), allergies, psoriasis, tuberculosis, inflammatory bone disorders, blood coagulation disorders, burns, rejection episodes following organ or tissue contraction during neoplasty therapy, to eliminate or reduce with TNFalpha generation during neoplasty therapy, to eliminate or reduce shock-related symptoms associated with the treathent or prevention of capale frejection by use of an anti-lymphocyte antibody, for treating multicorrect antibodies in the diagnosis and imaging of disease states involving elevated levels of TNF alpha. The present sequence is human group 1 consensus peptide used in the exemplification of the invention
 complementarity determining region; rheumatoid; osteo-arthritis; sepsis; congestive heart failure; shock; tissue transplant; tuberculosis; AIDS; Acquired Immune Deficiency Syndrome; adult respiratory distress syndrome; cachexia; allergy; psoriasis; blood coagulation disorder; thyroiditis; inflammatory bone disorder; crohn's disease; autoimmune disease; burn; neoplasty therapy; immunomodulator; vulnerary; graft rejection.
 New antibody specific for human tumor necrosis factor (TNF)-alpha, useful for treating TNF-alpha-mediated diseases, e.g. congestive heart failure, septic or endotoxic shock, cachexia, adult respiratory distress syndrome.
 tumour necrosis factor 40; TNF40; osteopathic; cardiant; CDR;
 Chapman AP;
 Popplewell AG,
 #3
 AAE19672 standard; peptide; 32 AA.
 Weir ANC,
 Example 1; Fig 1; 119pp; English.
 Human group 1 consensus peptide
 05-JUN-2001; 2001WO-GB002477.
 06-JUN-2000; 2000GB-00013810.
 (CELL-) CELLTECH R & D LTD.
 (first entry)
 Athwal DS, Brown DT,
 WPI; 2002-216732/27.
 21
7
1 FILTISS
 15 FTLTISS
 WO200194585-A1.
 Sequence 32 AA;
 Homo sapiens.
 31-MAY-2002
 13-DEC-2001
 King DJ;
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Virucide; human; immunopolypeptide; immunopeptide; envelope glycoprotein; nonstructural protein; hepatitis C virus; HCV; E2 glycoprotein;
 New human immunopolypeptide with binding specificity for certain envelope glycoproteins and nonstructural proteins of hepatitis C virus (HCV), for diagnosing or treating patients having or suspected of having HCV
 The present invention relates to human immunopolypeptides, produced by a phage transfected cell library. The present sequence is one such immunopolypeptides have binding specificity for envelope glycoprotein B2 and nonstructural protein NS3 of hepatitis C virus (HCV). E2 glycoprotein is believed to be responsible for target cell binding and contains neutralising epitopes, while NS3 is thought to be involved in the replication of HCV. The immunopolypeptides are useful for diagnosing and treating a patient having or suspected to be having HCV infection
 Virucide; human; immunopolypeptide; immunopeptide; envelope glycoprotein;
 Gaps
 Human immunopeptide to HCV E2 glycoprotein framework sequence #166.
 Human immunopeptide to HCV E2 glycoprotein framework sequence #196.
 0;
 Length 32;
 Indels
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 100.0%; Score 32; DB 5; 100.0%; Pred. No. 8.9;
 Fox RI;
 Mismatches
 Burton DR,
 ABP62658 standard; peptide; 32 AA.
 ABP62688 standard; peptide; 32 AA.
 Claim 4; Fig 17; 308pp; English.
 0;
 25-JAN-2002; 2002WO-US002303.
 26-JAN-2001; 2001US-0264451P.
 nonstructural protein; ĥepât:
NS3 protein; viral infection
 (first entry)
 (first entry)
 (SCRI) SCRIPPS RES INST.
 Conservative
 Maruyama T, Jones IM,
 WPI; 2002-599801/64.
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 Query Match
Best Local Similarity
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 WO200259340-A1.
 Seguence 32 AA;
 Homo sapiens.
 10-OCT-2002
 10-OCT-2002
 01-AUG-2002,
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 ABP62688;
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RESULT 1
 ABP62688
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Gaps

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Mismatches

Score 32; DB 5; Length 32; Pred. No. 8.9;

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New human immunopolypeptide with binding specificity for certain envelope glycoproteins and nonstructural proteins of hepatitis C virus (HCV), for diagnosing or treating patients having or suspected of having HCV infection.
 The present invention relates to human immunopolypeptides, produced by a phage transfected cell library. The present sequence is one such immunopolypeptide. The immunopolypeptides have binding specificty for envelope glycoprotein E2 and nonstructural protein N83 of hepatitis C virus (HCV). E2 glycoprotein is believed to be responsible for target cell binding and contains neutralising epitopes, while N83 is thought to be involved in the replication of HCV. The immunopolypeptides are useful for diagnosing and treating a patient having or suspected to be having
nonstructural protein; hepatitis C virus; HCV; E2 glycoprotein; NS3 protein; viral infection.
 Fox RI;
 Burton DR,
 Claim 4; Fig 17; 308pp; English.
 25-JAN-2002; 2002WO-US002303.
 26-JAN-2001; 2001US-0264451P.
 (SCRI) SCRIPPS RES INST.
 Maruyama T, Jones IM,
 WPI; 2002-599801/64.
 Sequence 32 AA;
 WO200259340-A1.
 Homo sapiens.
 01-AUG-2002.
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Query Match 100.0%; Score 32; DB 5; Length 32; Best Local Similarity 100.0%; Pred. No. 8.9; Matches 7; Conservative 0; Mismatches 0; Indels Qy 1 FTLTISS 7

Db 15 FTLTISS 21

Search completed: November 4, 2004, 00:47:39 Job time: 62.333 secs

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Gaps

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
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 1370721 seqs, 324215800 residues
 SUMMARIES
 Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
 - protein search, using sw model
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Gapop 10.0 , Gapext 0.5
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 US-09-712-819D-1
32
1 FTLTISS 7
 Title:
Perfect score:
 Scoring table:
 OM protein
 Database :
 Sequence:
 Searched:
 Run on:
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| Description                   | Sequence 1991, Ap  | Sequence 1992, Ap  | Sequence 1993, Ap  | Sequence 1994, Ap  | Sequence 13, Appl | Sequence 95, Appl | Sequence 96, Appl |                  |                  | _                | Sequence 91, Appl | Sequence 76, Appl | Sequence 88, Appl |
|-------------------------------|--------------------|--------------------|--------------------|--------------------|-------------------|-------------------|-------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|
| ΔΙ                            | US-10-468-496-1991 | US-10-468-496-1992 | US-10-468-496-1993 | US-10-468-496-1994 | US-09-855-271-13  | US-09-828-708-95  | US-09-828-708-96  | US-09-828-708-98 | US-09-949-559-91 | US-09-874-141-15 | US-09-875-221A-91 | US-09-563-222-76  | US-09-563-222-88  |
|                               | 16                 | 16                 | 16                 | 16                 | o.                | 0                 | 0                 | о<br>О           | ص                | 10               | 10                | 10                | 10                |
| %<br>Query<br>Match Length DB | 13                 | 13                 | 13                 | 13                 | 32                | 32                | 32                | 32               | 32               | 32               | 32                | 32                | 32                |
| %<br>Query<br>Match           | 100.0              | 100.0              | 100.0              | 100.0              | 100.0             | 100.0             | 100.0             | 100.0            | 100.0            | 100.0            | 100.0             | 100.0             | 100.0             |
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| Result<br>No.                 | 1                  | 7                  | ო                  | 4                  | Ŋ                 | 9                 | 7                 | 80               | o,               | 10               | 11                | 12                | 13                |

| equence 11 equence 35 equence 15 equence 51 equence 84 equence 12 equence 12 equence 15 equence 15                                                                     | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0                                                                         | Sequence 86, Appl<br>Sequence 110, Appl<br>Sequence 16, Appl<br>Sequence 18, Appl<br>Sequence 22, Appl<br>Sequence 24, Appl<br>Sequence 9, Appli<br>Sequence 9, Appli<br>Sequence 17, Appl |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 09-563-222-11<br>09-791-551-35<br>10-449-566-87<br>10-443-466A-8<br>10-443-466A-8<br>10-462-046-12<br>10-462-046-12<br>10-489-379-15<br>10-688-015-15<br>10-688-015-15 | 10-632-706-2<br>10-632-706-2<br>10-632-706-2<br>10-632-706-2<br>10-632-706-2<br>10-632-706-2<br>110-632-706-2 | 10 - 783 - 9<br>10 - 783 - 9<br>10 - 783 - 9<br>10 9 - 874 - 1<br>10 9 - 874 - 1<br>10 - 171 - 6<br>110 - 171 - 6<br>110 - 428 - 8                                                         |
| 00488888999                                                                                                                                                            | 116<br>116<br>116<br>116                                                                                      | 117<br>110<br>110<br>110<br>114<br>114<br>115                                                                                                                                              |
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## ALIGNMENTS

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RESULT I
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Sequence 1991, Application US/10468496
Publication No. U220040189386A1
Sequence 1991, Application US/10468496
Sequence 1991, Application US/10468496
GENERAL INFORMATION
APPLICANT: Carr. Francis J.
APPLICANT: Carr. Francis J.
APPLICANT: Williams, Stephen
APPLICANT: Williams, Stephen
APPLICANT: Hamilton, Anita
APPLICANT: WILLOW NUMBER: 2001-02-19
TITLE OF INVENTION: BPITOPES AND USE FOR PREPARING MOLECULES WITH REDUCED
TITLE OF INVENTION: BPITOPES AND USE FOR PREPARING MOLECULES
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TITLE OF INVENTION: BPITOPES AND USE FOR PREPARING MOLECULES
TITLE OF INVENTION: DATE: 2001-02-19
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US-1U-408-4996-1994

Sequence 1994, Application US/10468496

Publication No. US20040180386A1

GENUREL INFORMATION:
APPLICANT: Carter, Graham
APPLICANT: Carter, Graham
APPLICANT: Williams, Stephen
APPLICANT: Williams, Stephen
APPLICANT: Williams, Stephen
APPLICANT: Williams, Stephen
APPLICANT: Williams, Stephen
APPLICANT: Williams, Stephen
APPLICANT: Williams, Stephen
APPLICANT: Williams, Stephen
APPLICANT: Williams, Stephen
APPLICANT: Williams, Stephen
APPLICANT: Williams, Stephen
TITLE OF INVENTION: IMPRIBE AND USE FOR PREPARING MOLECULES WITH REDUCED
TITLE OF INVENTION: DIMPRES: US/10/468,496
TITLE OF INVENTION WIMBER: U103594.2
PRIOR FILING DATE: 2001-02-19
PRIOR FILING DATE: 2001-02-19
PRIOR FILING DATE: 2001-03-15
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PRIOR FILING DATE: 2001-03-15
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 FEATURE: OTHER INFORMATION: MHC class II binding epitope
 ; OTHER INFORMATION: MHC class II binding epitope
US-10-468-496-1994
CURRENT FILING DATE: 2003-09-25
PRICR APPLICATION NUMBER: 01103954.2
PRICR APPLICATION NUMBER: 01103954.2
PRICR FILING DATE: 2001-02-19
PRICR APPLICATION NUMBER: 01106538.0
PRICR FILING DATE: 2001-03-08
PRICR FILING DATE: 2001-03-15
PRICR FILING DATE: 2001-03-15
PRICR FILING DATE: 2001-03-15
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PRICR FILING DATE: 2001-03-15
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PRICR FILING DATE: 2001-03-20
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ORGANISM: Artificial Sequence
 TYPE: PRT
ORGANISM: Artificial Sequence
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 US-10-468-496-1993
 US-10-468-496-1994
 LENGTH: 13
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 GENERAL INCOMPATION:

JAPPLICANT: Carter, Graham

APPLICANT: Carter, Graham

JAPPLICANT: Carter, Graham

JAPPLICANT: Carter, Graham

JAPPLICANT: Carter, Graham

JAPPLICANT: Williams, Stephen

APPLICANT: Hamilton, Anita

APPLICANT: Hamilton, Anita

JITLE OF INVENTION: METHOD FOR IDENTIFICATION OF T-CELL

TITLE OF INVENTION: IMMUNOGRACITY

TITLE OF INVENTION: IMMUNOGRACITY

TITLE OF INVENTION: IMMUNOGRACITY

TITLE OF INVENTION: IMMUNOGRACITY

CURRENT APPLICATION NUMBER: 01103954.2

PRIOR FILING DATE: 2001-02-18

PRIOR FILING DATE: 2001-02-18

PRIOR FILING DATE: 2001-03-15

PRIOR FILING DATE: 2001-03-15

PRIOR PRIUNG DATE: 2001-03-15

PRIOR PRIUNG DATE: 2001-03-15

PRIOR PRIUNG DATE: 2001-03-20

PRIOR PILING DATE: 2001-03-20

PRIOR FILING DATE: 2001-03-20

PRIOR FILING DATE: 2001-03-20

PRIOR FILING DATE: 2001-03-20

NUMBER OF SEQ ID NOS: 2036

NUMBER OF SEQ ID NOS: 2036
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0
 Sequence 1993, Application US/10468496
Publication No. US20040180386A1
GENERAL INFORMATION
APPLICANT: Carter, Graham
APPLICANT: Jones, Tim
APPLICANT: Williams, Stephen
APPLICANT: Milliams, Stephen
APPLICANT: Hamilton, Anita
TITLE OF INVENTION: METHOD FOR IDENTIFICATION OF T-CELL
TITLE OF INVENTION: EPITOPES AND USE FOR PREPARING MOLECULES WITH REDUCED
TITLE OF INVENTION: IMMUNOGENCITY
FILE REPERENCE: MER-117
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 100.0%; Score 32; DB 16; Length 13; 100.0%; Pred. No. 6.4; cive 0; Mismatches 0; Indels
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 OTHER INFORMATION: MHC class II binding epitope
 0; Mismatches
 CURRENT APPLICATION NUMBER: US/10/468,496
 Sequence 1992, Application US/10468496
Publication No. US20040180386A1
GENERAL INFORMATION:
 TYPB: PRT
ORGANISM: Artificial Sequence
 Query Match
Best Local Similarity 100.
Matches 7; Conservative
 Conservative
 FILLISS 10
 Query Match
Best Local Similarity
Matches 7; Conserv
 1 FTLTISS 7
 RESULT 2
US-10-468-496-1992
 RESULT 3
US-10-468-496-1993
 US-10-468-496-1992
 US-10-468-496-1991
 D ID NO 1992
SENGTH: 13
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Gaps

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APPLICANT: Ditzel, H.
APPLICANT: Ditzel, H.
APPLICANT: Burton, D.
APPLICANT: Schaller, M.
TITLE OF INVENTION: Autcoimmune disease
TITLE OF INVENTION: autoimmune disease
TITLE OF INVENTION: autoimmune disease
TITLE OF INVENTION: 136:105552
CURRENT APPLICATION NUMBER: US/09/828,708
CURRENT FILING DATE: 2001-09-24
NUMBER OF SEQ ID NOS: 123
SOFTWARE: PastSEQ for Windows Version 4.0
LENGTH: 32
LENGTH: 32
 Sequence 98, Application US/09828708
Patent No. US20020146753A1
Patent No. US20020146753A1
Patent No. US20020146753A1
APPLICANT: Ditzel, H.
APPLICANT: Burton, D.
APPLICANT: Schaller, M.
TITLE OF INVENTION: autoantibodies to glucose-6-phosphate isomerase and their participating and the continuation of the
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 100.0%; Score 32; DB 9; Length 32; 100.0%; Pred. No. 16;
 Score 32; DB 9; Length 32;
Pred. No. 16;
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 .,
 0; Mismatches
 0; Mismatches
 Geguence 91, Application US/09949559
Fatent No. US20020151682A1
GENERAL INFORMATION:
APPLICANT: Athwal, Dilject Singh
APPLICANT: Athwal, Dilject Singh
APPLICANT: Andrew Neil Charles
APPLICANT: Popplewell, Andrew George
APPLICANT: Chapman, Andrew Paul
APPLICANT: King, David John
TILE APPLICANT: King, David John
FILE REPERENCE: Carp-0095
CURRENT APPLICATION NUMBER: US/09/949,559
CURRENT FILING DATE: 2001-12-20
PRIOR FILING DATE: 2000-06-06
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 1 FTLTISS 7
 1 FTLTISS
 US-09-828-708-98
 US-09-828-708-98
 RESULT 9
US-09-949-559-91
 TYPE: PRT
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 GENERAL INFORMATION:

APPLICANT: Ditzel, H.

APPLICANT: Burton, D.

APPLICANT: Burton, D.

APPLICANT: Burton, D.

APPLICANT: Burton, D.

APPLICANT: Burton, D.

APPLICANT: Burton, D.

APPLICANT: Burton, D.

TITLE OF INVENTION: Autoantibodies to glucose-6-phosphate isomerase and their particilities of INVENTION: autoimmune disease

FILE REFERENCE: 1361.005USL

CURRENT APPLICATION NUMBER: US/09/828,708

CURRENT FILING DATE: 2001-09-24

NUMBER OF SEQ ID NOS: 123

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO 95

LENGTH: 32
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 APPLICANT: Bodmer, Mark W
APPLICANT: Athwal, Diljeet Singh
APPLICANT: Athwal, Diljeet Singh
APPLICANT: Athwal, Diljeet Singh
APPLICANT: Burage, John Spencer
TITLE OF INVENTION: Interleukin-5 Specific Recombinant Antibodies
FILE REFERENCE: CARP-008
FILE REFERENCE: CARP-008
FILE REFERENCE: CARP-008
FILE REFERENCE: AND NUMBER: 18/09/855,271
FRIOR APPLICATION NUMBER: 09/347,061
FRIOR FILING DATE: 1999-07-02
NUMBER OF SEQ ID NOS: 28
SOFTWARE: Patentin version 3.1
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 ; Sequence 95, Application US/09828708 ; Patent No. US20020146753A1
 ; Sequence 96, Application US/09828708
; Patent No. US20020146753A1
 ORGANISM: Artificial Sequence
 OTHER INFORMATION: Consensus
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Best Local Similarity 100.
Matches 7; Conservative
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; ORGANISM: Homo sapiens
US-09-828-708-95
 Query Match
Best Local Similarity
T; Conserve
 FTLTISS 21
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 1 FTLTISS 7
 RESULT 5
US-09-855-271-13
 RESULT 7
US-09-828-708-96
 JS-09-855-271-13
 RESULT 6
US-09-828-708-95
 TYPE: PRT
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Gaps

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RESULT 13
US-09-563-222-88
iSequence 88, Application US/09563222
publication No-US20030079253A1
publication No-US20030079253A1
iGENERAL INFORMATION:
APPLICANT: Hiatt, Andrew
APPLICANT: Hiatt, Andrew
ITITLE OF INVENTION: IMMUNOGLOBULIN BINDING PROTEIN ARRAYS IN
ITITLE OF INVENTION: BUKARYOTIC CELLS
ITITLE OF INVENTION: BUKARYOTIC CELLS
ITITLE REPRENCE: 310098-406
CURRENT APPLICATION NUMBER: US/09/563,222
CURRENT FILING DATE: 2000-05-02
CURRENT FILING DATE: 2000-05-02
NUMBER OF SEQ ID NOS: 197
SOFTWARE: FASTESQ for Windows Version 4.0
 US-09-563-222-76

Sequence 76. Application US/09563222

Publication No. US20030079253A1

Publication No. US20030079253A1

GENERAL INFORMATION:
APPLICANT: Hiatt, Andrew
APPLICANT: Hein, Mich B.
TITLE OF INVENTION: BUKARVOTIC CELLS
TITLE OF INVENTION: BUKARVOTIC CELLS
FILE REFERENCE: 310098.406
CURRENT APPLICATION NUMBER: US/09/563,222
CURRENT FILING DATE: 2000-05-02

NUMBER OF SEQ ID NOS: 197
SOFTWARE: FASTESEQ FOR WINGOWS Version 4.0
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Matches 7; Conservative 0; Mismatches 0; Indels
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 ; OTHER INFORMATION: Human group 1 consensus framework L3 US-09-875-221A-91
 TYPE: PRT ORGANISM: Artificial Sequence
SOFTWARE: Patentin version 3.1
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Best Local Similarity 100.
 TYPE: PRT
; ORGANISM: Homo sapien
US-09-563-222-76
 ORGANISM: Homo sapien
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 1 FILTISS 7
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 1 FILTISS 7
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 Best Local Similarity
Matches 7; Conserv
 US-09-563-222-88
 SEQ ID NO 91
LENGTH: 32
 Query Match
 FEATURE:
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 APPLICANT: HANNA, NABIL
APPLICANT: RASITETER, WILLIAM H.
APPLICANT: RASITETER, WILLIAM H.
APPLICANT: RACETER, WILLIAM S.
TITLE OF INVENTION: NON-AGONISTIC ANTIBODIES TO HUMAN GP39, COMPOSITIONS TITLE OF INVENTION: CONTAINING, AND THERAPEUTIC USE THEREOF FILLE REPERRENCE: 037003-0280632
CURRENT APPLICATION NUMBER: US/09/874,141
PRIOR APPLICATION NUMBER: 600209,584
PRIOR FILING DATE: 2000-06-06
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 Length 32;
 9; Length 32;
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 ; OTHER INFORMATION: Human group 1 consensus framework L3 US-09-949-559-91
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Best Local Similarity 100.0%; Pred. No. 16;
Matches 7; Conservative 0; Mismatches 0;
 RESULT 11
US-09-875-221A-91
Sequence 91, Application US/09875221A
Sequence 91, Application US/09875221A
Sequence 91, Application No. US20330026805A1
GENERAL INFORMATION:
APPLICANT: Atrwal, Dilject Singh
APPLICANT: Brown, Derek Thomas
APPLICANT: Weir, Andrew Neil Charles
APPLICANT: Popplewall, Andrew George
APPLICANT: Chapman, Andrew Paul
APPLICANT: Chapman, Andrew Paul
APPLICANT: Chapman, Andrew Paul
APPLICANT: Carp-0089
CURRENT APPLICATION NUMBER: US/09/875,221A
CURRENT APPLICATION NUMBER: US/09/875,221A
PRIOR FILING DATE: 2001-06-06
PRIOR FILING DATE: 2000-06-06
NUMBER OF SEQ ID NOS: 130
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 PRIOR APPLICATION NUMBER: 09/875,221
PRIOR FILING DATE: 2001-06-06
NUMBER OF SEQ ID NOS: 130
SOFTWARE: PatentIn version 3.1
SEQ ID NO 91
LENGTH: 32
 US-09-874-141-15; Sequence 15, Application US/09874141; Publication No. US20030012781A1
 ;
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 ORGANISM: Artificial Sequence
 Publication No. US20030012781A1
GENERAL INFORMATION:
 APPLICANT: ANDERSON, DARRELL APPLICANT: PAN, LI-ZHEN
 NUMBER OF SEQ ID NOS: 53
SOFTWARE: Patentin Ver. 2.1
 Query Match
Best Local Similarity 100.
 ORGANISM: Homo sapiens
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 1 FTLTISS 7
 FTLTISS 7
 US-09-874-141-15
 SEQ ID NO 15
LENGTH: 32
TYPE: PRT
 TYPE: PRT
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RESULT 14
US-09-563-222-116
is Sequence life, Application US/09563222
is Publication No. US20030079253A1
is GENERAL INFORMATION:
is APPLICANT: Haid, Andrew
is APPLICANT: Haid, Mich B.
if TILE OF INVENTION: IMMUNOGLOBULIN BINDING PROTEIN ARRAYS IN
if TILE OF INVENTION: BUKARYOTIC CELLS
if CURRENT APPLICANION NUMBER: US/09/563,222
is CURRENT FILING DATE: 2000-05-02
in VUMBER OF SEQ ID NOS: 197
is SOFTWARE: FastSEQ for Windows Version 4.0
is SEQ ID NO 116
if LEMGTH: 32
if LEMGTH: PAT
if ORGANISM: Mus musculus
US-09-563-222-116
 US=09-701-51-55
; Sequence 35, Application US/09791551
; Publication No. US2003035584A1
; GENERAL INPORMATION:
; APPLICANT: HANNA, NABLL
; TITLE OF INVENTION: METHOD FOR PREPARING ANTI-MIF ANTIBODIES
; TITLE REFERENCE: 037003/0277869
; CURRENT APPLICATION NUMBER: 05/185,390
; CURRENT FILING DATE: 2001-02-26
; PRIOR APPLICATION NUMBER: 60/185,390
; PRIOR FILING DATE: 2000-02-28
; PRIOR FILING DATE: 2000-02-28
; PRIOR FILING DATE: 2000-02-18
; PRIOR FILING DATE: 2000-02-18
; SOFTWARE: PALENTIN VORS: 119
; SOFTWARE: PALENTIN VET: 2.1
; SEQ ID NO 35
; TYPE: PRT
; ORGANISM: Mus Sp.
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 Query Match 100.0%; Score 32; DB 10; Length 32; Best Local Similarity 100.0%; Pred. No. 16; Matches 7; Conservative 0; Mismatches 0; Indels
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Best Local Similarity 100.
Matches 7, Conservative
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 1 FILLISS 7
 RESULT 15
US-09-791-551-35
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Search completed: November 4, 2004, 01:13:28 Job time : 73.3333 secs

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